

General Assembly Retirement System, State of Illinois



A PENSION TRUST FUND
OF THE STATE OF ILLINOIS

Annual Financial Report for the Fiscal Year Ended June 30, 2021

GENERAL ASSEMBLY RETIREMENT SYSTEM OF ILLINOIS

2101 South Veterans Parkway, P. O. Box 19255

Springfield, Illinois 62794-9255

Phone 217-782-8500 • Fax 217-524-9039

Internet: <http://www.srs.illinois.gov>

Email: gars@srs.illinois.gov

FISCAL YEAR 2021 HIGHLIGHTS

187 Total Membership

122 Active Contributing Members

\$79,808,941 Net Position—Restricted for
Pensions, fair value

CONTRIBUTIONS

\$1,238,024 Participants

\$27,299,000 Employer

\$14,809,371 Net Investment Income

26.0% Investment Return

BENEFIT RECIPIENTS

316 Retirement Annuities

114 Survivors' Annuities

\$26,064,329 Benefits Paid

\$384,421,539 Total Pension Liability

\$79,808,941 Fiduciary Net Position

\$304,612,598 Net Pension Liability

20.76% Funded Ratio

MISSION STATEMENT

To establish an efficient method of permitting retirement, without hardship or prejudice, to General Assembly members and certain elected state officials who are aged or otherwise incapacitated, by enabling them to accumulate reserves for themselves and their dependents for old age, disability, death and termination of employment.

This year's cover commemorates inventions and innovations that were created in Illinois or by Illinoisans.

GENERAL ASSEMBLY RETIREMENT SYSTEM, STATE OF ILLINOIS

A Pension Trust Fund of the State of Illinois

ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2021

GENERAL ASSEMBLY RETIREMENT SYSTEM,
STATE OF ILLINOIS

2101 South Veterans Parkway
P. O. Box 19255
Springfield, Illinois 62794-9255

Prepared by the Accounting Division



Printed by Authority of the State of Illinois
Printed on Recycled Paper

TABLE OF CONTENTS

INTRODUCTORY SECTION.....	3	ACTUARIAL SECTION	51
Letter of Transmittal.....	4	Actuary's Certification Letter	52
Board of Trustees	8	Introduction	55
Administration.....	9	Review by the State Actuary	56
Certificate of Achievement for Excellence in Financial Reporting	10	Actuarial Cost Method and Summary of Major Actuarial Assumptions	56
FINANCIAL SECTION.....	11	Summary of and Changes to the Plan Provisions	58
Independent Auditor's Report.....	12	Short-Term Solvency Test	58
Management's Discussion and Analysis	14	Schedule of Retirants and Survivors' Annuitants Added to and Removed from Rolls.....	59
Basic Financial Statements:		Summary of Accrued and Unfunded Accrued Liabilities (Analysis of Funding)	59
Statement of Fiduciary Net Position.....	17	Reconciliation of Unfunded Actuarial Liability	60
Statement of Changes in Fiduciary Net Position	18	Schedule of Active Member Valuation Data.....	61
Notes to Financial Statements	19	Valuation Results	61
Required Supplementary Information:		STATISTICAL SECTION	63
Schedule of Changes in the State's Net Pension Liability and Related Ratios.....	38	Asset Balances.....	64
Notes to the Schedule of Changes in the State's Net Pension Liability and Related Ratios	40	Liabilities and Reserve Balances	64
Schedule of Investment Returns	41	Number of Participants	64
Schedule of State Contributions	41	Number of Recurring Benefit Payments/ Termination Refunds	65
Notes to Schedule of State Contributions.....	41	Number on Active Payrolls	65
Supplementary Financial Information:		Active Retirees by State	65
Schedule of Payments to Consultants.....	43	Changes in Fiduciary Net Position	66
INVESTMENT SECTION	45	Retirement Annuitants Statistics and Average Monthly Benefits.....	68
Investment Report	46	Annuitants by Benefit Range (Monthly)	68
Investment Policy and Asset Allocation.....	46	Survivors by Benefit Range (Monthly)	68
Investment Portfolio Summary	47	Average Benefit Payments.....	69
Additional Investment Information	48	PLAN SUMMARY AND LEGISLATIVE SECTION.....	71
Management Expenses.....	48		
Analysis of Investment Performance	48		

INTRODUCTORY SECTION

LETTER OF TRANSMITTAL



February 25, 2022

The Board of Trustees and Members
General Assembly Retirement System,
State of Illinois
Springfield, IL 62794

Dear Board of Trustees and Members:

The annual financial report of the General Assembly Retirement System, State of Illinois (System) as of and for the fiscal year ended June 30, 2021 is hereby submitted. Responsibility for both the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, rests with the System.

To the best of our knowledge and belief, the enclosed data are accurate in all material respects and are reported in a manner designed to present fairly the financial position and results of operations of the System. All disclosures necessary to enable the reader to gain an understanding of the System's financial activities have been included.

Generally accepted accounting principles require that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis (MD&A). This letter of transmittal is designed to complement MD&A and should be read in conjunction with it. The System's MD&A can be found immediately following the report of the independent auditors.

The report consists of six sections:

1. The Introductory Section contains this letter of transmittal, the identification of the Board of Trustees and the administrative organization and the Certificate of Achievement for Excellence in Financial Reporting;
2. The Financial Section contains management's discussion and analysis, the report of the Independent Auditors, the financial statements of the System and certain required and other supplementary financial information;
3. The Investment Section contains a report on investment activity, investment policies, investment results and various investment schedules;
4. The Actuarial Section contains the Actuary's Certification Letter and the results of the annual actuarial valuation;
5. The Statistical Section contains significant statistical data; and
6. The Plan Summary and Legislative Section contains the System's plan provisions and current legislative changes.

Generally accepted accounting principles require that the financial reporting entity include:

1. the primary government;
2. organizations for which the primary government is financially accountable; and
3. other organizations for which the nature and significance of their relationship with the primary government are such that exclusion would cause the reporting entity's financial statements to be misleading or incomplete.

Based on the criteria of the Governmental Accounting Standards Board Statement No. 61, there are no other

state agencies, boards or commissions, or other organizations required to be combined with the System, however, the System is considered to be part of the State of Illinois financial reporting entity, and is to be combined and included in the State of Illinois' annual financial report.

Although the General Assembly Retirement System, Judges' Retirement System and State Employees' Retirement System share a common administration, they are separate entities for legal and financial reporting purposes. Therefore, the financial statements of the General Assembly Retirement System do not include fiduciary net position information nor the changes in fiduciary net position of the State Employees' Retirement System or Judges' Retirement System.

PLAN HISTORY & SERVICES PROVIDED

The General Assembly Retirement System was established as a public employee retirement system (PERS) by state statute on July 1, 1947. As of June 30, 1948, the end of the System's first fiscal year of operations, there were a total of 190 participants and the fiduciary net position valued at cost amounted to approximately \$39,000. The fair value of fiduciary net position at the end of fiscal year 2021 amounted to approximately \$79.8 million, and there were 187 total active and inactive participants.

The mission of the System as prescribed by state statute is to "provide retirement annuities, survivors' annuities, and other benefits for members of the General Assembly, certain elected officials, and their beneficiaries."

INVESTMENTS

The System's investments are managed by the Illinois State Board of Investment (ISBI) pursuant to Chapter 40, Article 5/22A of the Illinois Compiled Statutes, using the "prudent person rule".

This rule states that fiduciaries shall discharge their duties solely in the interest of the fund participants and beneficiaries and with the degree of diligence, care and skill which prudent men and women would ordinarily exercise under similar circumstances in a like position.

The ISBI maintains a wide diversification of investments within this fund which is intended to reduce overall risk and increase returns. As further detailed in the Investment Section, the ISBI Commingled Fund had a gain of 25.8%, net of expenses for the fiscal year ended June 30, 2021. Information regarding the Schedule of Fees and Commissions paid is included in the ISBI annual report.

FUNDING

Funding is the process of specifically allocating monies for current and future use. Proper funding includes an actuarial review of the fund balances to ensure that funds will be available for current and future benefit payments. The greater the level of funding, the larger the ratio of accumulated assets to the actuarial accrued liability and the greater the level of investment potential.

The funding plan for the System, enacted in 1994 with subsequent modifications, requires that state contributions be paid to the System so that by the end of fiscal year 2045, the ratio of accumulated assets to the actuarial accrued liability will be 90%. For fiscal years 2011 through 2045, the required state contributions are to be computed as a level percentage of participant payroll.

For fiscal years up through 2010, the required state contributions, except for fiscal years 2006 and 2007, were to be increased incrementally as a percentage of the participant payroll so that by fiscal year 2011 the state is contributing at the required level contribution rate to achieve the financing objective by the end of fiscal year 2045. For fiscal year 2021, the statutorily required state contribution was \$27,299,000. The total amount of contributions received from the state and other sources for fiscal year 2021 was \$27,299,000.

The funding legislation also provides for the establishment of a continuing appropriation of the required state contributions to the System. This has, in effect, removed the appropriation of these funds from the annual budgetary process.

LETTER OF TRANSMITTAL

The actuarial determined liability of the System using the State's projected unit credit actuarial cost method for funding purposes at June 30, 2021, amounted to \$373.7 million. The actuarial value of assets amounted to \$72.2 million resulting in an unfunded accrued actuarial liability of \$301.5 million as of the same date. The actuarial determined liability, actuarial value of assets, and unfunded accrued actuarial liability of the System as presented above and in the Actuarial section of this report using the state's funding method does not conform with GASB Statement No. 67 and therefore, the amounts presented above and in the Actuarial section of this report differ from the amounts presented for financial reporting purposes in the Financial section of this report. A detailed discussion of funding is provided in the Actuarial Section of this report.

MAJOR EVENTS/INITIATIVES

Throughout fiscal year 2021, the operational staff of the System rotated between working from home and working from the office. Processing benefits in an accurate and timely manner and maintaining active membership accounts were the focal workflow points to ensure that the System could achieve the goals of its primary mission.

Information Technology development continued to advance in the processing and calculation of benefits. IT technical support focused on allowing the staff the ability to effectively work remotely for most tasks.

ACCOUNTING SYSTEM & INTERNAL CONTROL

This report has been prepared to conform with the principles of governmental accounting and reporting pronounced by the Governmental Accounting Standards Board and the American Institute of Certified Public Accountants.

The accrual basis of accounting is used to record the financial transactions and activities of the System. Revenues are recognized in the accounting period in which they are earned, without regard to the date of collection, and expenses are recognized when the corresponding liabilities are incurred, regardless of when payment is made.

The System also uses the State of Illinois, Statewide Accounting Management System (SAMS) as a basis for the preparation of the financial statements.

In developing the System's accounting system, consideration is given to the adequacy of internal accounting controls. These controls are designed to provide reasonable assurance regarding the safekeeping of assets and the reliability of financial records. The concept of reasonable assurance recognizes that the cost of a control should not exceed the benefits likely to be derived and that the valuation of costs and benefits requires estimates and judgments by management. Constant effort is directed by the System at improving this level to assure the participants of a financially sound retirement system.

PROFESSIONAL SERVICES

Independent consultants are retained by the Board of Trustees to perform professional services that are essential to the effective and efficient operation of the System. Actuarial services are provided by Gabriel, Roeder, Smith & Company, Chicago, Illinois. The System's investment function is managed by the Illinois State Board of Investment.

The annual financial audit of the System was conducted by the accounting firm of RSM US LLP, under the direction of the Auditor General of the State of Illinois. In addition to the annual financial audit, a compliance attestation examination is also performed by the auditors.

The purpose of the compliance attestation examination was to determine whether the System obligated, expended, received and used public funds of the state in accordance with the purpose for which such funds have been authorized by law.

LETTER OF TRANSMITTAL

CERTIFICATE OF ACHIEVEMENT

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the General Assembly Retirement System for its annual financial report for the fiscal year ended June 30, 2020.

The Certificate of Achievement is a prestigious national award recognizing excellence in the preparation of state and local government financial reports. To be awarded a Certificate of Achievement, a governmental unit must publish an easily readable and efficiently organized financial report, whose contents meet or exceed program standards. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. The General Assembly Retirement System has received a Certificate of Achievement for the past thirty-two consecutive years (fiscal years ended June 30, 1989 through June 30, 2020).

We believe our current report continues to conform to the Certificate of Achievement program requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate.

ACKNOWLEDGMENTS & COMMENTS

The preparation of this report reflects the combined efforts of the System's staff under the direction of the Board of Trustees. It is intended to provide complete and reliable information as a basis for making management decisions, as a means of determining compliance with legal provisions, and for determining responsible stewardship for the assets contributed by the members in the State of Illinois.

On behalf of the Board of Trustees, we would like to express our appreciation to the staff and professional consultants who worked so effectively to ensure the successful operation of the System.

Respectfully submitted,



Timothy B. Blair
Executive Secretary



Alan T. Fowler CPA
Chief Fiscal Officer

BOARD OF TRUSTEES



SENATOR
Robert Martwick
Chairperson



SENATOR
Dave Syverson
Vice-Chairperson



REPRESENTATIVE
Jonathan Carroll



REPRESENTATIVE
Michael Halpin



SENATOR
Napoleon Harris III

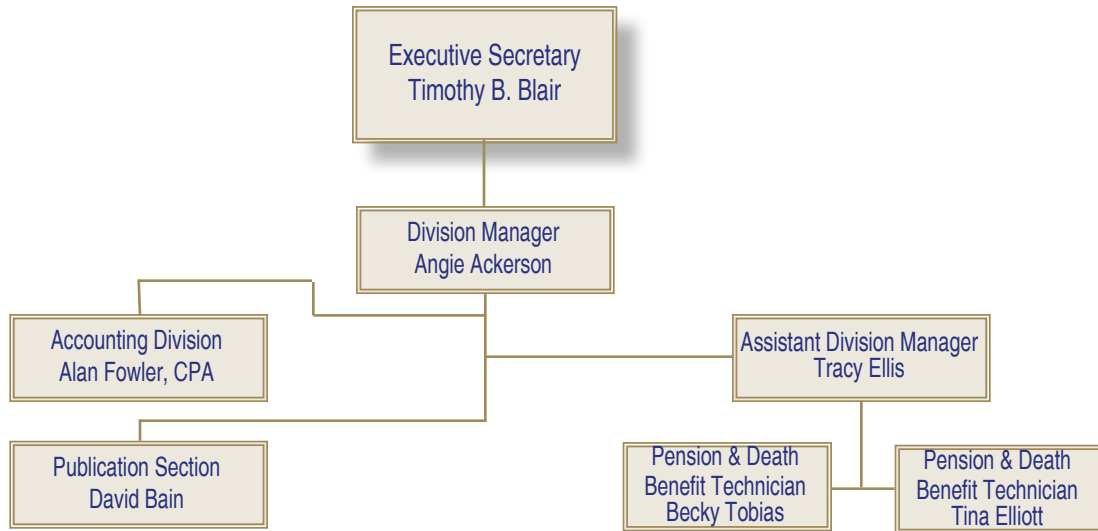


REPRESENTATIVE
Charles Meier



ANNUITANT
Tom Ryder

ADMINISTRATIVE STAFF



Advisors, Auditors, and Administrators

Consulting Actuary	Gabriel, Roeder, Smith & Company Chicago, Illinois
External Auditor	RSM US LLP Schaumburg, Illinois
Investments	Illinois State Board of Investment Chicago, Illinois



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**General Assembly Retirement System
State of Illinois**

For its Comprehensive Annual
Financial Report
For the Fiscal Year Ended

June 30, 2020

Christopher P. Morill

Executive Director/CEO

FINANCIAL SECTION



Independent Auditor's Report

RSM US LLP

Honorable Frank J. Mautino, Auditor General – State of Illinois

Board of Trustees, General Assembly Retirement System of the State of Illinois

Report on the Financial Statements

As Special Assistant Auditors for the Auditor General, we have audited the accompanying Statement of Fiduciary Net Position of the General Assembly Retirement System of the State of Illinois (System) as of June 30, 2021, and the Statement of Changes in Fiduciary Net Position for the year then ended, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We did not audit the 2021 financial statements of the Illinois State Board of Investment, an internal investment pool of the State of Illinois, which statements represent 90 percent, 93 percent, and 34 percent, respectively, of total assets, net position restricted for pension benefits, and total additions of the System. Those financial statements were audited by other auditors whose report thereon has been furnished to us, and our opinion, insofar as it relates to the amounts included for the Illinois State Board of Investment is based solely on the report of other auditors. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, based on our audit and the report of other auditors, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the System as of June 30, 2021, and the changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matter

The actuarially determined net pension liability, calculated as required by GASB Statement No. 67, is dependent on several assumptions including the assumption that future required contributions from State sources are made based on statutory requirements in existence as of the date of this report. These assumptions and required contributions are discussed in Notes 5 and 6 of the financial statements on pages 32 through 34. Our opinion is not modified with respect to this matter.

INDEPENDENT AUDITOR'S REPORT

Other Matters

Required Supplementary Information:

Accounting principles generally accepted in the United States of America require that management's discussion and analysis on pages 14 through 16 and the required supplementary information as listed in the table of contents on pages 38 through 42 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We and other auditors have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information:

Our audit was conducted for the purpose of forming an opinion on the System's basic financial statements. The supplementary financial information in the financial section, as listed in the table of contents, and the accompanying introductory, investment, actuarial, statistical, and plan summary and legislative sections are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The supplementary financial information in the financial section, as listed in the table of contents, is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to underlying accounting and other records used to prepare the basic financial statements, or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America by us and other auditors. In our opinion, based on our audit, the procedures performed as described above, and the report of other auditors, the supplementary financial information in the financial section, as listed in the table of contents, is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment, actuarial, statistical, and plan summary and legislative sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

RSM US LLP

Schaumburg, Illinois
February 25, 2022

MANAGEMENT'S DISCUSSION AND ANALYSIS

This section presents management's discussion and analysis of the financial position and performance of the General Assembly Retirement System (System) for the year ended June 30, 2021. It is presented as a narrative overview and analysis. Readers are encouraged to consider the information presented here in conjunction with the Letter of Transmittal included in the Introductory Section of the Annual Financial Report.

The System is a defined benefit, single-employer public employee retirement system. It provides services to 122 active participants, 51 vested inactive participants, and 443 benefit recipients. Throughout this discussion and analysis, units of measure (i.e. billions, millions, thousands) are approximate, being rounded up or down to the nearest tenth of the respective unit value.

OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis is intended to serve as an introduction to the System's financial reporting which is comprised of the following components:

1. **Basic Financial Statements and Notes.** For the fiscal year ended June 30, 2021, basic financial statements are presented for the System. This information presents the fiduciary net position restricted for pensions for the System as of June 30, 2021. This financial information also summarizes the changes in the fiduciary net position restricted for pensions for the year then ended. The notes to the financial statements provide additional information that is essential to achieve a full understanding of the data provided in the basic financial statements.
2. **Required Supplementary Information.** The required supplementary information consists of three schedules and related notes concerning actuarial information, funded status, information on State contributions, and investment returns.
3. **Other Supplementary Schedules.** Other supplementary schedules include more detailed information pertaining to the System, including the schedule of payments to consultants and advisors.

FINANCIAL HIGHLIGHTS

- The fiduciary net position increased by \$16.8 million during fiscal year 2021. This change was primarily the result of increases in investments of \$18.2 million during fiscal year 2021.
- The System's Plan Fiduciary Net Position as a percentage of the Total Pension Liability was 20.8% as of June 30, 2021.
- The overall rate of return for the Illinois State Board of Investment (ISBI) Commingled Fund was a gain of 25.8% in fiscal year 2021. The System's annual money-weighted rate of return on its investment in the ISBI Commingled Fund was a gain of 26.0% for fiscal year 2021.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Condensed Statements of Fiduciary Net Position (in thousands)			
	As of June 30,		Increase/(Decrease) from
	2021	2020	2020 to 2021
Cash	\$ 5,616.6	\$ 5,913.8	\$ (297.2)
Receivables	28.6	43.9	(15.3)
Investments, at fair value *	76,526.0	58,318.5	18,207.5
Capital Assets, net	45.2	38.4	6.8
Total assets	82,216.4	64,314.6	17,901.8
Liabilities *	2,407.5	1,302.8	1,104.7
Total fiduciary net position	<u>\$ 79,808.9</u>	<u>\$ 63,011.8</u>	<u>\$ 16,797.1</u>
* Including securities lending collateral			

ADDITIONS TO FIDUCIARY NET POSITION

Additions to Fiduciary Net Position include employer and participant contributions and net income from investment activities. Participant contributions were \$1.2 million in 2020 and 2021, respectively. Participant contribution rates are set by statute as a percentage of gross salary. For fiscal year 2021, employer contributions increased to approximately \$27.3 million from \$25.8 million in fiscal year 2020. This increase was the result of the actuarially determined employer contributions required by the State's funding plan.

DEDUCTIONS FROM FIDUCIARY NET POSITION

Deductions from Fiduciary Net Position are primarily benefit and refund payments. During fiscal years 2021 and 2020, the System paid out approximately \$26.2 million and \$25.8 million in benefits and refunds, respectively. This increase of 1.4% from 2020 to 2021 is mainly the result of the annual scheduled 3% increase in retirement and other benefit payments. The administrative costs of the System represented less than 2% of the total deductions in each of the fiscal years presented within the condensed statements.

Condensed Statements of Changes in Fiduciary Net Position (in thousands)			
	For the Year Ended June 30,		Increase/(Decrease) from
	2021	2020	2020 to 2021
Additions			
Participant contributions	\$ 1,238.0	\$ 1,205.9	\$ 32.1
Employer contributions	27,299.0	25,754.0	1,545.0
Net Investment income gain/(loss)	14,809.3	2,581.1	12,228.2
Total additions	<u>43,346.3</u>	<u>29,541.0</u>	<u>13,805.3</u>
Deductions			
Benefits	26,064.3	25,709.9	354.4
Refunds	154.3	137.8	16.5
Administrative expenses	330.6	400.7	(70.1)
Total deductions	<u>26,549.2</u>	<u>26,248.4</u>	<u>300.8</u>
Net increase/(decrease) in fiduciary net position	<u>\$ 16,797.1</u>	<u>\$ 3,292.6</u>	<u>\$13,504.5</u>

FUNDED RATIO

The funded ratio of the plan measures the ratio of the fiduciary net position against the total pension liability and is one indicator of the fiscal strength of a pension fund's ability to meet obligations to its members. An annual actuarial valuation is performed. The most recent available valuation showed the funded status of the System was 20.8% on June 30, 2021. The amount by which the total pension liability exceeded the fiduciary net position was \$304.6 million on June 30, 2021.

INVESTMENTS

Investments of the System are combined in an internal commingled investment pool held by the Illinois State Board of Investment (ISBI). The other entities participating in this commingled pool are the Judges' Retirement System, State Employees' Retirement System, and one other state agency. The investments of this other state agency are immaterial to the total commingled investment pool. Each participating entity owns an equity position in the pool and receives proportionate investment income from the pool in accordance with respective ownership percentage. Investment gains or losses are reported in the Statement of Changes in Fiduciary Net Position of each participating entity.

The net investment gain of the total ISBI Commingled Fund was approximately \$5,049.9 million during fiscal year 2021, resulting in a positive return of 25.8%. The actual rate of return earned by the System will vary from the return earned on the total ISBI Commingled Fund as the result of overall market conditions at the time of additional investments in or withdrawals from the ISBI Commingled Fund. For the three, five, and ten year period ended June 30, 2021, the ISBI Commingled Fund earned a compounded rate of return of 12.1%, 11.2%, and 9.1%, respectively.

The ISBI is exposed to general market risk. This general market risk is reflected in asset valuations fluctuating with market volatility. Any impact from market volatility on the ISBI's investment portfolio depends in large measure on how deep the market downturn is, how long it lasts, and how it fits within fiscal year reporting periods. The resulting market risk and associated realized and unrealized gains and losses could significantly impact the ISBI's financial condition. In light of the current global COVID-19 pandemic and associated national and global economic volatility, readers of these financial statements are advised that financial markets remain volatile and may experience significant changes on a daily basis.

FUTURE OUTLOOK

The actuarial assumptions used in the June 30, 2021 funding valuation were based on the experience review for the three years ended June 30, 2018, and annual review of all economic assumptions. The state's statutory employer contribution for fiscal year 2022 will increase by \$0.5 million, or 1.9%.

Tier 2 active members' annual earnings on which they can contribute were capped at \$126,375 in 2021 and will be capped at \$130,166 in 2022. The caps on Tier 2 members' earnings decreases the anticipated amount of future earnings credit as well as the associated contributions.

Benefit payments are projected to continue to grow at a rate of approximately 4% to 6%, primarily as a result of the increasing numbers of retirees and the 3% annual COLA.

The COVID-19 global pandemic continues to have an impact on our day to day business operations. Staff have modified work schedules so that they work from home but rotate into the office, as needed, to handle some of the priority transactions that can't be done, remotely. We will continue our operations in the safest possible way for the GARS staff while ensuring that transactions continue to be processed for all GARS members.

The ISBI plans to continue to improve the overall investment portfolio performance by increasing reliance on passive investment strategies and reducing investment advisor and management fees.

REQUESTS FOR INFORMATION

This financial report is designed to provide a general overview of the System's finances. For questions concerning the information in this report or for additional information, contact the Accounting Division of the State Retirement Systems at srsacctgdiv@srs.illinois.gov.

FINANCIAL STATEMENTS

GENERAL ASSEMBLY RETIREMENT SYSTEM, STATE OF ILLINOIS

Statement of Fiduciary Net Position

June 30, 2021

Assets	
Cash	\$ 5,616,610
Receivables:	
Participants' contributions	21,257
Refundable annuities	5,782
Interest on cash balances	1,587
Total receivables	28,626
Investments:	
Investments - held in the Illinois State Board of Investment Commingled Fund at fair value	74,220,057
Securities lending collateral with State Treasurer	2,306,000
Total Investments	76,526,057
Capital Assets, net	45,176
Total Assets	82,216,469
Liabilities	
Refunds payable	2,172
Administrative expenses payable	38,880
Due to Judges' Retirement System of Illinois	60,476
Securities lending collateral	2,306,000
Total Liabilities	2,407,528
Net position – restricted for pensions	\$ 79,808,941

See accompanying notes to financial statements.

FINANCIAL STATEMENTS

GENERAL ASSEMBLY RETIREMENT SYSTEM, STATE OF ILLINOIS

Statement of Changes in Fiduciary Net Position for the Year Ended June 30, 2021

Additions:	
Contributions:	
Participants	\$ 1,238,024
Employer	27,299,000
Total contributions	<u>28,537,024</u>
Investment income:	
Net appreciation/(depreciation) in fair value of investments	14,122,832
Interest and dividends	776,812
Less investment expense	(90,273)
Net investment income (loss)	<u>14,809,371</u>
Total Additions	<u>43,346,395</u>
Deductions:	
Benefits:	
Retirement annuities	21,403,506
Survivors' annuities	<u>4,660,823</u>
Total benefits	26,064,329
Refunds of contributions	154,312
Administrative expenses	<u>330,616</u>
Total Deductions	<u>26,549,257</u>
Net increase/(decrease) in net position	<u>16,797,138</u>
Net position - restricted for pensions:	
Beginning of year	<u>63,011,803</u>
End of year	<u>\$ 79,808,941</u>

See accompanying notes to financial statements.

GENERAL ASSEMBLY RETIREMENT SYSTEM, STATE OF ILLINOIS

Notes to Financial Statements June 30, 2021

1. Reporting Entity

Generally accepted accounting principles require that the financial reporting entity include (1) the primary government, (2) organizations for which the primary government is financially accountable and (3) other organizations for which the nature and significance of their relationship with the primary government are such that exclusion would cause the reporting entity's financial statements to be misleading or incomplete.

The General Assembly Retirement System (System) is administered by a Board of Trustees consisting of seven persons, which include: three members of the Senate appointed by the President of the Senate, three members of the House of Representatives appointed by the Speaker of the House of Representatives, and one person elected from the member annuitants. Operation of the System and the direction of its policies are the responsibility of the Board of Trustees.

Based on the criteria of the Governmental Accounting Standards Board Statement No. 61, there are no other state agencies, boards or commissions, or other organizations required to be combined with the System, however, the System is a pension trust fund of the State of Illinois financial reporting entity, and is to be combined and included in the State of Illinois' annual financial report.

At June 30, 2021, the System membership consisted of:

Retirees and beneficiaries	
currently receiving benefits:	
Retirement annuities	316
* Survivors' annuities	114
Reversionary annuities	-
	<u>430</u>
Inactive participants entitled to benefits	
but not yet receiving them	51
Total	<u>494</u>
Active participants:	
Vested	63
Nonvested	59
Total	<u>122</u>

* Excludes 13 alternate payees resulting from Qualified Illinois Domestic Relations Orders (QILDRO's)

2. Plan Description

The System is the administrator of a single-employer defined benefit public employee retirement system (PERS) established and administered by the State of Illinois to provide pension benefits for its participants. The plan is comprised of two tiers of contribution requirements and benefit levels. Tier 1 pertains to participants who first became a participant of the System prior to January 1, 2011. Tier 2 pertains to participants who first became a participant of the System on or after January 1, 2011.

FINANCIAL STATEMENTS

a. Eligibility and Membership

The General Assembly Retirement System covers members of the General Assembly of the State and persons elected to the offices of Governor, Lieutenant Governor, Secretary of State, Treasurer, Comptroller and Attorney General for the period of service in such offices and the Clerks and Assistant Clerks of the respective Houses of the General Assembly. Participation by eligible persons is optional.

b. Contributions

In accordance with Chapter 40, Section 5/2-126 of the Illinois Compiled Statutes, participants contribute specified percentages of their salaries for retirement annuities, survivors' annuities, and automatic annual increases as shown below. Tier 1 participants contribute based on total annual compensation. Beginning January 1, 2011, Tier 2 participants contribute based on an annual compensation rate not to exceed \$106,800 with limitations for future years increased by the lesser of 3% or the annual percentage increase in the Consumer Price Index. The compensation limitation for 2021 was \$126,375. Contributions are excluded from gross income for Federal and State income tax purposes. The total contribution rate is 11.5% as shown below:

8.5%	Retirement annuity
2.0%	Survivors' annuity
1.0%	Automatic annual increases
<u>11.5%</u>	

The statutes governing the General Assembly Retirement System provide for optional contributions by participants, with interest at prescribed rates, to retroactively establish service credits for periods of prior creditable service.

The Board of Trustees has adopted the policy that interest payments by a participant, included in optional contributions to retroactively establish service credits, shall be considered an integral part of the participant's investment in annuity expectancies and, as such, shall be included as a part of any refund payable.

The payment of (1) the required State contributions, (2) all benefits granted under the System and (3) all expenses in connection with the administration and operation thereof are the obligations of the State to the extent specified in Chapter 40, Article 5/2 of the Illinois Compiled Statutes.

c. Benefits Retirement Annuity: Tier 1

Participants have vested rights to full retirement benefits beginning at age 55 with at least 8 years of credited service or at age 62 with at least 4 years of credited service.

The retirement annuity is determined according to the following formula based upon the applicable final salary:

- 3.0% for each of the first 4 years of service
- 3.5% for each of the next 2 years of service
- 4.0% for each of the next 2 years of service
- 4.5% for each of the next 4 years of service
- 5.0% for each year of service in excess of 12 years.

The maximum retirement annuity is 85% of the applicable final salary. Annual automatic increases of 3% of the current amount of retirement annuity are provided.

Retirement Annuity: Tier 2

Participants have vested rights to full retirement benefits at age 67 with at least 8 years of credited service or reduced retirement benefits at age 62 with at least 8 years of credited service.

The retirement annuity provided is 3% for each year of service based upon the applicable final average salary. The maximum retirement annuity is 60% of the applicable final average salary. Annual automatic increases equal to the lesser of 3% or the annual change in the Consumer Price Index are provided.

Other Benefits

The General Assembly Retirement System also provides survivors' annuity benefits, reversionary annuity benefits, and under certain specified conditions, lump-sum death benefits.

Participants who terminate service may receive, upon application, a refund of their total contributions. Participants who are not married are entitled to refunds of their contributions for survivors.

3. Summary of Significant Accounting Policies and Plan Asset Matters

a. Basis of Accounting

The financial transactions of the System are maintained and these financial statements have been prepared using the accrual basis of accounting in conformity with generally accepted accounting principles.

Participant and employer contributions are recognized as revenues when due pursuant to statutory requirements. Benefits and refunds are recognized as expenses when due and payable in accordance with the terms of the plan.

b. Cash

The System retains all of its available cash in a commingled investment pool managed by the Treasurer of the State of Illinois (Treasurer). All deposits are fully collateralized by the Treasurer.

"Available cash" is determined to be that amount which is required for the current operating expenditures of the System. The excess of available cash is transferred to the Illinois State Board of Investment (ISBI) for purposes of long-term investment for the System.

c. Implementation of New Accounting Standards

The Governmental Accounting Standards Board (GASB) issued Statement No. 95, "Postponement of the Effective Dates of Certain Authoritative Guidance" which postponed the effective dates for implementation of certain new pronouncements to provide relief to governments and other stakeholders considering the on-going COVID-19 pandemic.

GASB Statement No. 84, "Fiduciary Activities", established criteria for identifying fiduciary activities of state and local governments. The focus of the criteria generally is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. This GASB has no impact as the System is already accounted for as a fiduciary activity.

GASB Statement No. 87, "Leases", requires the recognition of certain lease assets and liabilities for leases that were previously classified as operating leases. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. A lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources, thereby enhancing the relevance and consistency of information about governments' leasing activities. This GASB is effective for fiscal periods beginning after June 15, 2021 (FY 2022). The System will implement this GASB in fiscal year 2022.

GASB Statement No. 90, "Majority Equity Interests", addresses whether a government's majority equity interest in a legally separate organization represents an investment or a component unit. It defines a majority equity interest and specifies that a majority equity interest in a legally separate organization should be reported as an investment if a government's holding of the equity interest meets the definition of an investment. This GASB is now effective for fiscal periods beginning after December 31, 2019 (FY 2021) but does not impact the System, due to a pension fund's ability to account for a majority equity investment at fair value under GASB 72.

GASB Statement No. 92, "Omnibus 2020" modifies requirements related to leases, reinsurance recoveries, and the terminology used to refer to derivative instruments. This portion of this GASB that pertains to the System is now effective for FY 2022 (terminology used for derivative instruments), however, it has already been implemented by the System and the ISBI.

GASB Statement No. 93, "Replacement of Interbank Offered Rates" addresses accounting and financial reporting implications that result from the replacement of an interbank offered rate (IBOR). This GASB has no impact on the System nor on the Illinois State Board of Investment.

FINANCIAL STATEMENTS

GASB Statement No. 96, "Subscription-based Information Technology Arrangements" provides guidance for the account and financial reporting for subscription-based information technology arrangements. This GASB is effective for fiscal year 2022 and is being reviewed for possible impact on the System's financial statements.

d. General Litigation

The System is subject to claims and lawsuits that arise primarily in the ordinary course of business. It is the opinion of management that the disposition or ultimate resolution of such claims and lawsuits will not have a material adverse effect on the fiduciary net position or the changes in fiduciary net position of the System.

e. Methods Used to Value Investments

Investments are managed by the ISBI pursuant to Chapter 40, Article 5/22A of the Illinois Compiled Statutes (ILCS) and are maintained in the ISBI Commingled Fund.

Investments owned are reported at fair value. Units of the ISBI Commingled Fund are issued to the participating entities on the last day of the month based on the unit net asset value calculated as of that date. Net investment income of the ISBI Commingled Fund is allocated to each of the participating entities on the last day of the month on the basis of percentage of accumulated units owned by the respective systems. Management expenses are deducted monthly from income before distribution.

The investment authority of the ISBI is provided in Chapter 40, Section 5/22A-112 of the ILCS. Such investment authority requires that all opportunities be undertaken with care, skill, prudence and diligence given prevailing circumstances that a prudent person acting in like capacity and experience would undertake.

f. Actuarial Experience Review

In accordance with Illinois Compiled Statutes, an actuarial experience review is to be performed at least once every three years to determine the adequacy of actuarial assumptions regarding the mortality, retirement, disability, employment, turnover, interest and earnable compensation of the members and beneficiaries of the System. An experience review was last performed for the period from July 1, 2015 to June 30, 2018 resulting in the adoption of new assumptions as of June 30, 2019. Assumptions changes include changes to the investment returns, rate of inflation, mortality and others as detailed in the Required Supplementary Information of this financial report.

g. Administrative Expenses

Expenses related to the administration of the System are financed through investment earnings and employer retirement contributions. These expenses are budgeted and approved by the System's Board of Trustees.

Administrative expenses common to the General Assembly Retirement System and the Judges' Retirement System are allocated 20% to the General Assembly Retirement System and 80% to the Judges' Retirement System.

Invoices/vouchers covering common expenses incurred are paid by the Judges' Retirement System, and the appropriate amount is allocated to and reimbursed by the General Assembly Retirement System. Administrative expenses allocated to and reimbursed by the General Assembly Retirement System as of June 30, 2021 was \$205,755. The total administrative expenses attributable to the General Assembly Retirement System is \$330,616 for fiscal year 2021.

h. Risk Management

The System, as part of the primary government of the State, provides for risks of loss associated with workers' compensation and general liability through the State's self-insurance program. The System obtains commercial insurance for fidelity, surety, and property. There have been no commercial insurance claims in the past three fiscal years.

i. Use of Estimates

In preparing financial statements in conformity with U.S. generally accepted accounting principles, the System makes estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements, as well as the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates and assumptions.

4. Investments

Introduction

Investments of the System are combined in a commingled internal investment pool and held by the Illinois State Board of Investment (ISBI). The System owns approximately 0.3% (\$74,220,056) of the net position of the ISBI commingled fund as of June 30, 2021. A schedule of investment expenses is included in the ISBI's annual report.

For additional information on ISBI's investments, please refer to their Annual Report as of June 30, 2021. A copy of the report can be obtained from the ISBI at 180 North LaSalle Street, Suite 2015, Chicago, Illinois 60601 or by visiting their website, <https://www.isbinvestment.com>.

Summary of the ISBI Fund's investments at fair value by type

	June 30, 2021
U.S. Govt. Agency and Municipal Obligations	\$ 521,828,660
Domestic Equities	3,337,691,564
International Equities	307,054,822
Domestic Bank Loans	145,394,891
Domestic Obligations	271,011,211
International Obligations	17,207,758
Commingled Funds	14,551,185,317
Hedge Funds	76,923,377
Real Estate Funds	2,233,918,871
Private Equity Funds	1,690,845,180
Infrastructure Funds	310,090,578
Opportunistic Debt Funds	1,131,242,538
Restricted Cash (subscription advance)	35,000,000
Measured at Amortized Cost:	
Money Market Instruments	250,743,051
Total Investments	<u>\$ 24,880,137,818</u>

Rate of Return

For the fiscal year ended June 30, 2021, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 26.0%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Deposits

Custodial credit risk for deposits is the risk that, in the event of a financial institution failure, the System's and ISBI's deposits may not be returned. All non-investment related bank balances at year-end are insured or collateralized with securities held by the Illinois State Treasurer or agents in the name of the State Treasurer. As of June 30, 2021, the ISBI had a non-investment related bank balance of \$755,688. A Custodial Credit Risk Policy was implemented by the ISBI staff and formally adopted by the ISBI Board in July of 2007. The policy outlines the control procedures used to monitor custodial credit risk. These assets are under the custody of Northern Trust. Northern Trust has an AA- Long-term Deposit/Debt rating by Standard & Poor's and an Aa2 rating by Moody's. Certain investments of the ISBI with maturities of 90 days or less would be considered cash equivalents; these consist of short-term investment funds and U.S. Treasury bills with maturities of 90 days or less, which are not subject to the custodial credit risk. For financial statement presentation and investment purposes, the ISBI reports these types of cash equivalents as Money Market Instruments within their investments. As of June 30, 2021, the ISBI had an investment related bank balance of \$20,314,455. This balance includes USD and foreign cash balances. Cash held in the investment related bank account is neither federally insured nor collateralized for amounts in excess of \$250,000. However, the ISBI is the beneficiary of multiple policies and bonds held by Northern Trust providing for recovery of various potential losses related to services provided by Northern Trust as the ISBI's custodian. At any given point and time, the foreign cash balances may be exposed to custodial credit risk.

Investment Commitments

The ISBI had total investment commitments of \$3.2 billion at the end of fiscal year 2021. The ISBI's real estate, private equity, infrastructure and opportunistic debt investment portfolios consist of passive interests in limited partnerships. The ISBI would fund outstanding commitments by utilizing available cash and then selling liquid securities in the portfolio as necessary.

Investment Liquidity

The majority of the ISBI's portfolio is highly liquid. However, the ISBI holds investments in hedge funds, real estate funds, opportunistic debt funds, private equity funds, commingled funds, bank loans and infrastructure funds that are considered illiquid by the very nature of the investment. Market risk exists with respect to these investments as the ISBI may not be able to exit from the illiquid investments during periods of significant market value declines.

Alternative Investments

The ISBI's investments in alternative investment vehicles consist of Commingled Funds, Private Equity Funds, Hedge Funds, Infrastructure Funds, Opportunistic Debt Funds and Real Estate Funds. These types of vehicles are used for making investments in various equity and debt securities according to the investment strategies as determined by the fund managers at the commencement of the fund.

Fair Value Measurements

Fair value is the amount that would be received to sell the investment in an orderly transaction between market participants at the measurement date (i.e. exit price). The fair value measurements are determined within a framework that utilizes a three-tier hierarchy, which maximizes the use of observable inputs and minimizes the use of unobservable inputs. Investments measured and reported at fair value are classified and disclosed in one of the following categories:

- Level 1 – Unadjusted quoted prices in active markets for identical assets.
- Level 2 – Inputs other than quoted prices that are observable for the asset, either directly or indirectly. These inputs include:
 - a. quoted prices for similar assets in active markets;
 - b. quoted prices for identical or similar assets in markets that are not active;
 - c. inputs other than quoted prices that are observable for the asset; or
 - d. inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 – Inputs that are unobservable for the asset. The valuation of these investments requires significant judgment due to the absence of quoted market values, inherent lack of liquidity, and changes in market conditions.

The valuation methodologies are as follows:

- U.S. Treasuries and U.S. Agencies: quoted prices for identical securities in markets that are not active;
- International Government and Corporate Obligations: broker's quote in an active market;
- Corporate Bonds: quoted prices for similar securities in active markets;
- Municipal Bonds: quoted prices for similar securities in active markets;
- Bank Loans: discounted cashflow, internal assumptions, weighting of the best available pricing inputs and third party pricing services;
- Common Stock and Equity Funds, International Preferred Stocks, International Equity Securities and Commingled Funds made up entirely of index tracking marketable securities: quoted prices for identical securities in an active market. Broker's quote in an active market;
- Money Market Funds: amortized cost which approximates fair value;
- Derivative Instruments: valued using a market approach that considers foreign exchange rates.

FINANCIAL STATEMENTS

The recurring fair value measurements for the year ended June 30, 2021 are as follows:

At June 30, 2021				
Fair Value Measurements Using				
	Level 1	Level 2	Level 3	Totals
Investments by fair value level				
Debt Securities				
US Government, agency, and municipal obligations	\$ 310,337	\$ 521,518,323	\$ -	\$ 521,828,660
Domestic bank loans	-	118,374,739	27,020,152	145,394,891
Domestic corporate obligations	3,719,167	239,897,539	27,394,505	271,011,211
International obligations	-	13,822,884	3,384,874	17,207,758
Total debt securities	<u>\$ 4,029,504</u>	<u>\$ 893,613,485</u>	<u>\$ 57,799,531</u>	<u>\$ 955,442,520</u>
Equity Securities				
Domestic equities	\$ 3,322,805,440	\$ 8,269,963	\$ 6,616,161	\$ 3,337,691,564
International equities	306,588,527	-	466,295	307,054,822
Total equity securities	<u>\$ 3,629,393,967</u>	<u>\$ 8,269,963</u>	<u>\$ 7,082,456</u>	<u>\$ 3,644,746,386</u>
Other				
Commingled funds ¹	\$ 12,517,722,651	\$ -	\$ -	\$ 12,517,722,651
Total other	<u>\$ 12,517,722,651</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 12,517,722,651</u>
Total investments by fair value level	<u>\$ 16,151,146,122</u>	<u>\$ 901,883,448</u>	<u>\$ 64,881,987</u>	<u>\$ 17,117,911,557</u>
Investments measured at the Net Asset Value (NAV)				
Commingled funds ²				\$ 2,033,462,666
Real estate funds				2,233,918,871
Private equity				1,690,845,180
Infrastructure				310,090,578
Opportunistic debt				1,131,242,538
Hedge funds				76,923,377
Restricted cash (subscription advance)				35,000,000
Total investments measured at the NAV				<u>\$ 7,511,483,210</u>
Investments not measured at fair value				
Money market instruments				<u>\$ 250,743,051</u>
Total investments				<u>\$ 24,880,137,818</u>

1. Commingled funds with readily determinable fair value reported as Level 1.
2. Commingled funds with limited individual investment look through priced using Net Asset Value.

Investments valued using the net asset value (NAV) per share (or its equivalent) are considered “alternative investments” and, unlike more traditional investments, generally do not have readily obtainable market values and take the form of limited partnerships. The ISBI values these investments based on the partnerships’ audited financial statements. If June 30 statements are available, those values are used preferentially. However, some partnerships have fiscal years ending at other than June 30. If June 30 valuations are not available, the value is adjusted from the most recently available valuation taking into account subsequent calls and distributions, adjusted for unrealized appreciation/depreciation, other income and fees.

FINANCIAL STATEMENTS

The following table presents the unfunded commitments, redemption frequency (if currently eligible), and the redemption notice period for alternative investments measured at NAV:

June 30, 2021				
	Fair Value	Unfunded Commitments*	Redemption Frequency	Redemption Notice Period
Commingled funds	\$ 2,033,462,666	\$ -	Quarterly	90 Days
Real estate funds	2,233,918,871	619.3	Quarterly	90 Days
Private equity	1,690,845,180	1,176.2	N/A	N/A
Infrastructure	310,090,578	276.5	Quarterly	90 Days
Opportunistic Debt	1,131,242,538	1,126.8	N/A	N/A
Hedge funds	76,923,377	-	Quarterly	90 Days
Restricted cash (subscription advance)	35,000,000	-	N/A	N/A
Total Investments measured at the NAV	<u>\$ 7,511,483,210</u>			
* In millions				

1) Commingled Funds measured at NAV – The ISBI's assets in this category consist of various investments that are blended together in order to provide economies of scale, allowing for lower trading costs per dollar of investment and diversification. These investments provide primarily liquid exposure to publicly traded equity and fixed income markets. The equity and fixed income portfolios provide diversification benefits and return enhancement to the overall fund in both domestic and international markets. Commingled funds are also called "pooled funds" and "master trusts". The ISBI's current NAV measured Commingled fund exposure consists of investments in thirty-four domestic and international public equity (thirty-two) and fixed income (two) funds. Nine of these funds are domestic and twenty-five are international. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year-end. The ISBI has no plans to liquidate these investments as of June 30, 2021. It is not probable that any investment will be sold at an amount different from the NAV of the plan's ownership interest.

2) Private Equity – The ISBI's assets in this category consist of investments in funds not listed on public exchanges. The ISBI's current Private Equity exposure consists of investments in ninety-one funds with the goals of generating returns significantly greater than typically available in the public market and diversifying the ISBI's overall portfolio that is comprised predominantly of equity and fixed income assets. The strategies of Private Equity funds include, but are not limited to, leveraged buyouts, venture capital and growth capital. Returns are commensurate with the risks presented by this asset class which include illiquidity. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year-end. The ISBI has no plans to liquidate these investments as of June 30, 2021. It is not probable that any investment will be sold at an amount different from the NAV of the plan's ownership interest.

3) Hedge Funds – The ISBI's assets in this category have historically consisted of investments in funds that seek to generate better than average return and provide a hedge against a downward trend in the overall market. The ISBI is currently in the process of transitioning investments in hedge fund vehicles to long-only equity vehicles. The ISBI's current Hedge Fund exposure consists of investments in three funds including hedge fund and long only equity assets. Returns are commensurate with the risks presented by this asset class which include illiquidity. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year-end. It is not probable that any investment will be sold at an amount different from the NAV of the plan's ownership interest.

FINANCIAL STATEMENTS

4) Infrastructure Funds – The ISBI's assets in this category consist of investments in funds that target infrastructure assets that provide essential services or facilities to a community (ports, bridges, toll roads, etc.). The ISBI's current infrastructure exposure consists of investments in twelve funds that seek to diversify the ISBI's overall portfolio (comprised predominantly of equity and fixed income assets) and provide capital appreciation and income generation. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year-end. The ISBI has no plans to liquidate these investments as of June 30, 2021. It is not probable that any investment will be sold at an amount different from the NAV of the plan's ownership interest.

5) Opportunistic Debt Funds – The ISBI's assets in this category consist of investments in private fixed income markets. The ISBI's current Opportunistic Debt exposure consists of investments in sixty-five funds with the goals of diversifying the ISBI's overall portfolio, providing downside protection through assets that are capital collateralized, and supplementing the total return of the portfolio which is comprised predominantly of equity and fixed income assets. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year-end. The ISBI has no plans to liquidate these investments as of June 30, 2021. It is not probable that any investment will be sold at an amount different from the NAV of the plan's ownership interest.

6) Real Estate Funds – The ISBI's assets in this category consist of investments in Core and Non-Core Real Estate Fund categories. The ISBI's current Real Estate exposure consists of investments in sixty funds with the goals of diversifying the ISBI's overall portfolio, providing capital appreciation and supplementing the total return of the portfolio through exposure to private real estate assets in both open-end and closed-end structures. Investments in this category are globally diversified and consist of office, industrial, multi-family, retail, storage and other types of assets. Core assets are expected to provide strong diversification through primary markets and high-income potential. Non-Core assets are typically higher risk assets with stronger capital appreciation. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year-end. The ISBI has no plans to liquidate these investments as of June 30, 2021. It is not probable that any investment will be sold at an amount different from the NAV of the plan's ownership interest.

7) Restricted Cash (Subscription Advance) – The ISBI's assets in this category consist of cash contributed to alternative investment managers prior to June 30 that is being held for a pending new investment subscription on July 1. The ISBI's current exposure consists of one subscription advance in Generation IM Global Equity Fund (a domestic equity commingled fund). Restricted cash held at period-end rolled into the designated investment vehicle to be tracked as a traditional commingled investment effective July 1, 2021.

Custodial Credit Risk for Investments

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty to a transaction, the ISBI will not be able to recover the value of investments or collateral securities that are in the possession of a counterparty. As of June 30, 2021, there were no investments that were uninsured and unregistered securities held by the counterparty or by its trust department or agent but not in the ISBI's name.

FINANCIAL STATEMENTS

Interest Rate Risk

The ISBI manages its exposure to fair value losses arising from interest rate risk by diversifying the debt securities portfolio and maintaining the debt securities portfolio to an effective weighted duration consistent with the Barclay's U.S. Universal Index (benchmark index). As of June 30, 2021, the effective weighted duration of the ISBI's fixed income portfolio was 4.7 years and the effective duration of the benchmark index was 6.2 years.

Duration is the measure of a debt investment's exposure to fair value changes arising from changing interest rates. It uses the present value of cash flows, weighted for those cash flows as a percentage of the investment's fair value. The effective duration measures the sensitivity of market price to parallel shifts in the yield curve. The table below shows the detail of the duration by investment type as of June 30, 2021:

Investment Type	Fair Value	Effective Weighted Duration Years
U.S. government, agency, and municipal obligations		
U.S. Government	\$ 521,518,323	4.9
U.S. federal agency	310,337	-
Total U.S. government, agency, and municipal obligations	521,828,660	
Domestic obligations		
Banks	123,578,249	6.1
Insurance	31,823,958	4.4
Commercial services	9,116,800	4.9
Other	106,492,204	2.5
Total domestic obligations	271,011,211	
International obligations	17,207,758	2.5
Grand Total	<u>\$ 810,047,629</u>	

For the ISBI's bank loan portfolio, the appropriate measure of interest rate risk is weighted average maturity. Weighted average maturity is the average time it takes for securities in a portfolio to measure weighted in proportion to the dollar amount that is invested in the portfolio. Weighted average maturity measures the sensitivity of fixed-income portfolios to interest rate changes. At June 30, 2021, the weighted average maturity of ISBI's bank loan portfolio was 5.0 years.

Concentration of Credit Risk and Credit Risk for Investments

The ISBI's portfolio of investments is managed by professional investment management firms. These investment management firms are required to maintain diversified portfolios. Each investment manager must comply with risk management guidelines individually assigned to them as part of their investment management agreement. The ISBI did not have any issuer investment that exceeded 5% of the total investments of the fund as of June 30, 2021. The table on the next page, presents the quality ratings of debt securities held by the ISBI as of June 30, 2021.

FINANCIAL STATEMENTS

	Moody's Quality Rating	
U.S. Government and Agency Obligations	AAA	\$ 521,828,660
Total U.S. Government and Agency Obligations		<u>\$ 521,828,660</u>
Domestic corporate obligations		
Banks	A	\$ 123,578,249
Total banks		<u>\$ 123,578,249</u>
Insurance	A	\$ 31,823,958
Total insurance		<u>\$ 31,823,958</u>
Commercial services	Not rated	\$ 9,116,800
Total commercial services		<u>\$ 9,116,800</u>
Other	A	\$ 7,564,230
	BA	10,396,447
	B	8,427,457
	CAA	5,706,905
	CA	420,000
	Not rated	73,977,165
Total other		<u>\$ 106,492,204</u>
Total domestic corporate obligations		<u>\$ 271,011,211</u>
Domestic bank loans		
	B	\$ 4,086,406
	CAA	44,741,890
	CA	2,220,005
	Not rated	94,346,590
Total bank loans		<u>\$ 145,394,891</u>
International obligations		
	BAA	\$ 1,500,045
	BA	2,239,263
	C	76,765
	Not rated	13,391,685
Total international obligations		<u>\$ 17,207,758</u>
Money market instruments		
	Not rated	\$ 250,743,051
Total money market instruments		<u>\$ 250,743,051</u>

FINANCIAL STATEMENTS

Foreign Currency Risk

The ISBI's international portfolio is constructed on the principles of diversification, quality, growth, and value. Risk of loss arises from changes in currency exchange rates and other factors. Certain investments held in infrastructure, opportunistic debt, private equity and real estate funds trade in a reported currency of Euro-based dollars valued at \$251,298,068 as of June 30, 2021. The table below presents the foreign currency risk by type of investment as of June 30, 2021.

Currency	International Equities	International Obligations
Australian Dollar	\$ 5,838,232	\$ -
Brazilian Real	7,663,169	-
British Pound Sterling	32,494,361	-
Canadian Dollar	11,987,931	1,008,897
Danish Krone	4,330,169	-
Euro Currency	107,952,260	2,375,977
Hong Kong Dollar	14,240,773	-
Japanese Yen	39,986,656	-
Mexican Peso	2,207,748	-
New Israeli Shekel	289,630	-
New Taiwan Dollar	1,495,846	-
New Zealand Dollar	376,032	-
Norwegian Krone	1,112,839	-
Singapore Dollar	1,708,671	-
South African Rand	1,401,795	-
South Korean Won	13,219,954	-
Swedish Krona	3,974,494	-
Swiss Franc	27,406,232	-
Foreign investments denominated in U.S. Dollars	29,368,030	13,822,884
Total	<u>\$ 307,054,822</u>	<u>\$ 17,207,758</u>

Securities Lending

Cash and cash equivalents included in the System's Statement of Fiduciary Net Position consist of deposits held in the State Treasury. The Illinois Office of the Treasurer invests the deposits held and allocates investment income on a monthly basis.

The State Treasurer lends securities to broker-dealers and other entities for collateral that will be returned for the same securities in the future. The State Treasurer has, through a Securities Lending Agreement, authorized Deutsche Bank AG to lend the State Treasurer's securities to broker-dealers and banks pursuant to a form of loan agreement.

During fiscal year 2021, Deutsche Bank AG lent U.S. Agency securities and U.S. Treasury securities and received as collateral U.S. dollar denominated cash. Borrowers were required to deliver collateral for each loan equal to at least 100% of the aggregate fair value of the loaned securities. Loans are marked to market daily. If the fair value of collateral falls below 100%, the borrower must provide additional collateral to raise the fair value to 100%.

FINANCIAL STATEMENTS

The State Treasurer did not impose any restrictions during fiscal year 2021 on the amount of the loans of available, eligible securities. In the event of borrower default, Deutsche Bank AG provides the State Treasurer with counterparty default indemnification. In addition, Deutsche Bank AG is obligated to indemnify the State Treasurer if Deutsche Bank AG loses any securities, collateral or investments of the State Treasurer in Deutsche Bank AG's custody. There were no losses during fiscal year 2021 resulting from a default of the borrowers or Deutsche Bank AG.

During fiscal year 2021, the State Treasurer and the borrowers maintained the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested in repurchase agreements with approved counterparties collateralized with securities approved by Deutsche Bank AG and marked to market daily at no less than 102%. Because the loans are terminable at will, their duration did not generally match the duration of the investments made with cash collateral. The State Treasurer had no credit risk as a result of its securities lending program as the collateral held exceeded the fair value of the securities lent. The securities lending collateral received that was invested in repurchase agreements and the fair value of securities on loan for the State Treasurer as of June 30, 2021 were \$5,491,725,001 and \$5,417,669,749, respectively. The System's portion of securities lending collateral that was invested in repurchase agreements as of June 30, 2021 was \$2,306,000.

Derivative Securities

In fiscal year 2010, the ISBI implemented GASB Statement No. 53, *Accounting and Financial Reporting for Derivative Instruments*, with respect to investments held in derivative securities. A derivative security is an investment whose payoff depends upon the value of other assets such as commodity prices, bond and stock prices, or a market index. The ISBI invests in derivative instruments including futures, options, rights and warrants, and swaps. The ISBI's derivatives are considered investment derivatives.

The ISBI's investment managers use options in an attempt to add value to the portfolio (collect premiums) or protect (hedge) a position in the portfolio. Financial options are an agreement that gives one party the right, but not the obligation, to buy or sell a specific amount of an asset for a specified price, called the strike price, on or before a specified expiration date. As a writer of financial options, the ISBI receives a premium at the outset of the agreement and bears the risk of an unfavorable change in the price of the financial instrument underlying the option. All written financial options are recognized as a liability in the ISBI's Statement of Net Position. As a purchaser of financial options, the ISBI pays a premium at the outset of the agreement and the counterparty bears the risk of an unfavorable change in the price of the financial instrument underlying the option. The gain or loss associated with options is recognized in the net increase/decrease in the fair value of investments in the ISBI's Statement of Changes in Net Position.

Rights and warrants allow the ISBI investment managers to replicate an underlying security they wish to hold (sell) in the portfolio. Rights and warrants provide the holder with the right, but not the obligation, to buy or sell a company's stock at a predetermined price. Rights usually expire after a few weeks and warrants can expire from one to several years. These investments are reported at fair value in the investment section of the ISBI Statement of Net Position within the common stock and foreign equity classifications. The gain or loss associated with rights and warrants is recognized in the net increase/decrease in the fair value of investments in the ISBI Statement of Changes in Net Position.

The ISBI investment managers use swaps to periodically exchange cash flows or liabilities with a defined counterparty, primarily as a method to hedge against specific risk exposures (e.g., interest rate risk, currency risk). Principal is usually not exchanged between the counterparties as part of these agreements. The fair values of the swap contracts represent current outstanding settlement receivables (assets) or payables (liabilities). These investments are reported at fair value in either the Investments Purchased or Investments Sold lines depending on their period-end position as an outstanding receivable or payable. Gains or losses are recognized in the net increase/decrease in the fair value of investments in the ISBI Statement of Change in Net Position.

FINANCIAL STATEMENTS

The table below presents the investment derivative instruments aggregated by type that were held by the ISBI as of June 30, 2021.

	Changes in Fair Value	Fair Value at Year-End	Notional Amount Number of Shares
Options	\$ 111,808	\$ -	-
Rights/Warrants	432,009	458,430	752,192
Swaps	(506,818)	-	-
	<u>\$ 36,999</u>	<u>\$ 458,430</u>	<u>752,192</u>

Derivative transactions involve, to varying degrees, credit risk and market risk. Credit risk is the possibility that a loss may occur because a party to a transaction fails to perform according to terms. Derivatives which are exchange traded are not subject to credit risk. No derivatives held are subject to custodial credit risk. Market risk is the possibility that a change in interest (interest rate risk) or currency rates (foreign currency risk) will cause the value of a financial instrument to decrease or become more costly to settle. The market risk associated with derivatives, the prices of which are constantly fluctuating, is regulated by imposing strict limits as to the types, amounts and degree of risk that investment managers may undertake. These limits are approved by the Board of Trustees and management of the ISBI and the risk positions of the investment managers are reviewed on a periodic basis to monitor compliance with the limits.

5. Funding - Statutory Contributions Required & Contributions Made

On an annual basis, a valuation of the liabilities and reserves of the System is performed by the System's actuarial consultants in order to determine the amount of contributions statutorily required from the State of Illinois. For fiscal year 2021, the actuary used the projected unit credit actuarial method for determining the proper employer contribution amount.

For fiscal year 2021, the required employer contribution was computed in accordance with the State's funding plan. This funding legislation provides for a systematic 50-year funding plan with an ultimate goal to fund the cost of maintaining and administering the System at an actuarial funded ratio of 90%.

In addition, the funding plan provides for a 15 year phase-in period to allow the state to adapt to the increased financial commitment. Since the 15-year phase-in period ended June 30, 2010, the state's contribution will remain at a level percentage of payroll for the next 35 years until the 90% funded level is achieved.

The total amount of statutorily required employer contributions for fiscal year 2021 was \$27,299,000. The total amount of employer contributions received from the state and other sources during fiscal year 2021 was \$27,299,000.

6. Net Pension Liability of the State

The components of the State's net pension liability for this plan at June 30, 2021 are as follows:

Total Pension Liability (TPL)	Plan Fiduciary Net Position (FNP)	Net Pension Liability	Plan FNP as % of TPL
\$384,421,539	\$79,808,941	\$304,612,598	20.76%

The System is significantly underfunded which raises concerns about its future financial solvency should there be a significant market downturn coupled with the State's inability or unwillingness to pay the employer contributions.

Actuarial Assumptions

The total pension liability was determined by an actuarial valuation as of June 30, 2021, using the following actuarial assumptions, which were based on the results of an actuarial experience study for the period from July 1, 2015 to June 30, 2018, applied to all periods included in the measurement:

Actuarial Cost Method:	Individual Entry-Age
Mortality rates:	
Post retirement:	Pub-2010 Above-Median Income General Healthy Retiree Mortality tables, sex distinct, with scaling factors of 99 percent for males and females, and the MP-2018 two-dimensional generational mortality Improvement scale, providing a margin for future mortality improvements.
Pre-retirement:	Including terminated vested members prior to attaining age 50. Pub-2010 Above-Median Income General Employee Mortality tables, sex distinct, with no scaling factors, and the MP-2018 two-dimensional generational mortality improvement scale. This assumption provides a margin for future mortality improvements. Future mortality improvements are reflected by projecting the base mortality tables forward from the year 2010 using the MP-2018 projection scale.
Inflation:	2.25%
Investment rate of return:	6.5%
Salary increases:	2.5% per year (consisting of an inflation component of 2.25% per year, a productivity component of .25% per year).
Group size growth rate:	Based on recent experience, the size of the current active group is projected to decrease by approximately 50% by the year 2056 due to the assumption that 50% of future members will elect to opt out of participating in the System.
Post-retirement increase:	Tier 1: 3.0% per year, compounded annually. Tier 2: 3.0% per year or the annual change in the Consumer Price Index, whichever is less, compounded annually.

Long-term Expected Return on Plan Assets

The long-term expected rate of return on pension plan investments is reviewed annually by the System's actuary, Gabriel Roeder Smith & Company (GRS), as part of the economic assumptions review. The actuarial assumptions are developed using historical data and projections employed to model future returns as provided by the Illinois State Board of Investments (ISBI) in conjunction with its investment consultant. The assumed rate of inflation which must be combined with the projected real return is 2.25%.

FINANCIAL STATEMENTS

The target allocations and forward looking annualized geometric real rates of return for each major asset class, which are applicable for a 20-year projection period, are summarized in the following table. The 20-year projections produced an estimated annual real return of 6.72% and a standard deviation of 11.8% for the aggregate portfolio.

Asset Class	Asset Allocation	
	Target Allocation	20 Year Simulated Real Rate of Return
U.S. Equity	23%	4.8%
Developed Foreign Equity	13%	5.3%
Emerging Market Equity	8%	6.5%
Private Equity	7%	6.8%
Intermediate Investment Grade Bonds	14%	0.4%
Long-term Government Bonds	4%	0.6%
TIPS	4%	0.3%
High Yield and Bank Loans	5%	2.5%
Opportunistic Debt	8%	4.3%
Emerging Market Debt	2%	2.2%
Real Estate	10%	5.6%
Infrastructure	2%	6.5%
Total	100%	

Discount Rate

A single discount rate of 6.30% was used to measure the total pension liability as of June 30, 2021. This represents a decrease of 0.07% from the discount rate used for the June 30, 2020 valuation, 6.37%.

The single discount rate was based on the June 30, 2021 expected rate of return on pension plan investments of 6.5% and a municipal bond rate, based on an index of 20-year general obligation bonds with an average AA credit rating as published by the Federal Reserve, of 1.92% as of June 30, 2021. The projection of cash flows used to determine the single discount rates assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between statutory contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position and future contributions were sufficient to finance the benefit payments through the year 2074 at June 30, 2021. As a result, for fiscal year 2021, the long-term expected rate of return on pension plan investments was applied to projected benefit payments through 2074, and the municipal bond rate was applied to all benefit payments after that date.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

For fiscal year 2021, the following table presents the plan's net pension liability using a single discount rate of 6.30%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage point lower or 1-percentage point higher.

	June 30, 2021		
	1% decrease 5.30%	Current Discount Rate 6.30%	1% increase 7.30%
State's net pension liability	\$346,782,543	\$304,612,598	\$269,291,901

FINANCIAL STATEMENTS

7. Administrative Expenses

A summary of the administrative expenses for the General Assembly Retirement System for fiscal year 2021 is listed below.

Personal services	\$103,848
Employee retirement contributions paid by employer	1,305
Employer retirement contributions	56,991
Social Security contributions	7,514
Group insurance	27,702
Contractual services	115,958
Travel	-
Printing	21
Commodities	52
Telecommunications	284
Information technology	13,627
Automotive	108
Depreciation/amortization	2,928
Change in accrued compensated absences	278
Total	<u>\$330,616</u>

8. Compensated Absences

Employees of the General Assembly Retirement System are entitled to receive compensation for all accrued but unused vacation time upon termination of employment. Additionally, employees of the System are entitled to receive compensation for one-half of the unused sick days that were earned on and after January 1, 1984 and before January 1, 1998, upon termination of employment. Accrued compensated absences, which are included in administrative expenses payable, are shown in the following table:

	<u>Beginning Balance</u>	<u>Additions</u>	<u>Deletions</u>	<u>Ending Balance</u>
Accrued Compensated Absences	\$ 13,375	\$ 16,549	\$ (16,271)	\$ 13,653

9. Pension Plan & Other Post-Employment Benefits

Plan Description. All of the System's full-time employees who are not eligible for participation in another state-sponsored retirement plan participate in the State Employees' Retirement System (SERS), which is a pension trust fund in the State of Illinois reporting entity.

The SERS is a single-employer defined benefit public employee retirement system (PERS) in which state employees participate, except those covered by the State Universities, Teachers', General Assembly, and Judges' Retirement Systems.

The financial position and results of operations of the SERS for fiscal year 2021 is included in the State of Illinois' Annual Financial Report for the year ended June 30, 2021. The SERS also issues a separate annual report that may be obtained by writing to the SERS, 2101 South Veterans Parkway, Springfield, Illinois 62794-9255 or by calling 217-785-7202.

The State of Illinois' annual financial report may be obtained by writing to the State Comptroller's Office, Financial Reporting Department, 325 West Adams St., Springfield, Illinois 62704-1858 or by calling 217-782-2053.

A summary of SERS' benefit provisions, changes in benefit provisions, employee eligibility requirements including eligibility for vesting, and the authority under which benefit provisions are established, are included as an integral part of the SERS' annual financial report. Also included is a discussion of employer and employee obligations to contribute and the authority under which those obligations are established.

Other Post-Employment Benefits. The State provides health, dental, vision, and life insurance benefits for retirees and their dependents in a program administered by the Department of Central Management Services. Substantially all State employees become eligible for post-employment benefits if they eventually become annuitants of one of the State sponsored pension plans. Health, dental, and vision benefits include basic benefits for annuitants and dependents under the State's self-insurance plan and insurance contracts currently in force. Annuitants may be required to contribute towards health, dental, and vision benefits with the amount based on factors such as date of retirement, years of credited service with the State, whether the annuitant is covered by Medicare, and whether the annuitant has chosen a managed health care plan. Annuitants who retired prior to January 1, 1998, and who are vested in the State Employees' Retirement System do not contribute towards health, dental, and vision benefits. For annuitants who retired on or after January 1, 1998, the annuitant's contribution amount is reduced 5% for each year of credited service with the State allowing those annuitants with twenty or more years of credited service to not have to contribute towards health, dental, and vision benefits. Annuitants also receive life insurance coverage equal to the annual salary on the last day of employment until age 60, at which time the benefit becomes \$5,000.

The State pays the System's portion of employer costs for the benefits provided. The total cost of the State's portion of health, dental, vision, and life insurance benefits of all members, including post-employment health, dental, vision, and life insurance benefits, is recognized as an expenditure by the State in the Illinois Annual Financial Report. The State finances the costs on a pay-as-you-go basis. The total costs incurred for health, dental, vision, and life insurance benefits are separated by individual department or fund for annuitants and their dependents and active employees and their dependents after the State adopted GASB Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other than Pensions. The System and the State Comptroller has determined that it would be inappropriate for the System to record its allocated share of the State's other post-employment benefits (OPEB) expense and liability associated with its employees because accounting standards would require that those costs be reallocated and recovered from other state agencies and funds through employer pension contributions.

A summary of post-employment benefit provisions, changes in benefit provisions, employee eligibility requirements including eligibility for vesting, and the authority under which benefit provisions are established are included as an integral part of the financial statements of the Department of Central Management Services. A copy of the financial statements of the Department of Central Management Services may be obtained by writing to the Department of Central Management Services, Stratton Office Building, 401 South Spring Street, Springfield, Illinois 62706.

FINANCIAL STATEMENTS

10. Capital Assets

Capital assets over \$1,000 are capitalized at their cost at the time of acquisition. Depreciation is computed using the straight-line method over the estimated useful life of the asset. The estimated useful lives are as follows: (1) office furniture - 10 years, (2) equipment - 6 years, (3) certain electronic data processing equipment - 3 years, and (4) internally developed software - 20 years. The summary of changes in Capital Assets for fiscal year 2021 is as follows:

	Beginning Balance	Current Year Additions	Current Year Deletions	Ending Balance
Capital Assets				
Equipment	\$ 15,983	\$ 1,988	\$ (8,227)	\$ 9,744
Capitalized Software Costs	<u>45,351</u>	<u>7,681</u>	<u>-</u>	<u>53,032</u>
Total	<u>61,334</u>	<u>9,669</u>	<u>(8,227)</u>	<u>62,776</u>
Accumulated Depreciation				
Equipment	(15,549)	(277)	8,227	(7,599)
Capitalized Software Costs	<u>(7,350)</u>	<u>(2,651)</u>	<u>-</u>	<u>(10,001)</u>
Total	<u>(22,899)</u>	<u>(2,928)</u>	<u>8,227</u>	<u>(17,600)</u>
Net Capital Assets	<u>\$ 38,435</u>	<u>\$ 6,741</u>	<u>\$ -</u>	<u>\$ 45,176</u>

REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF CHANGES IN THE STATE'S NET PENSION LIABILITY AND RELATED RATIOS Fiscal Years Ended June 30, 2021 through 2014

	2021
Total pension liability	
Service cost	\$ 2,729,135
Interest on the total pension liability	23,603,996
Difference between expected and actual experience	(314,744)
Assumption changes	2,676,810
Benefit payments	(26,064,329)
Refunds	(154,312)
Administrative expense	(330,616)
Net change in total pension liability	<u>2,145,940</u>
Total pension liability - beginning	<u>382,275,599</u>
Total pension liability - ending (a)	<u><u>\$ 384,421,539</u></u>
Plan fiduciary net position	
Contributions - employer	\$ 27,299,000
Contributions - participant	1,238,024
Net investment income	14,809,371
Benefit payments	(26,064,329)
Refunds	(154,312)
Administrative expense	(330,616)
Net change in plan fiduciary net position	<u>16,797,138</u>
Plan fiduciary net position - beginning	<u>63,011,803</u>
Plan fiduciary net position - ending (b)	<u><u>\$ 79,808,941</u></u>
State's net pension liability - ending (a)-(b)	<u><u>\$ 304,612,598</u></u>
Plan fiduciary net position as a percentage of the total pension liability	20.76%
Covered payroll	\$ 10,082,079
State's net pension liability as a percentage of covered payroll	3,021.33%
Single discount rate, Beginning of Year	6.37%
Single discount rate, End of Year	6.30%
Long-term municipal bond rate	1.92%
Long-term municipal bond rate date	6/30/21

REQUIRED SUPPLEMENTARY INFORMATION

2020	2019	2018	2017	2016	2015	2014
\$ 2,859,384	\$ 3,280,072	\$ 3,535,911	\$ 3,879,813	\$ 3,577,188	\$ 5,957,132	\$ 5,383,133
23,720,171	24,852,899	24,541,949	24,045,958	22,395,292	19,911,100	20,110,452
(1,547,100)	4,007,760	1,197,364	2,093,742	(5,400,812)	2,366,032	12,389,130
1,929,204	(8,252,643)	(1,213,112)	(2,430,609)	42,122,612	(70,538,690)	-
(25,709,904)	(24,558,440)	(23,283,020)	(22,362,526)	(21,841,237)	(21,274,949)	(20,800,502)
(137,810)	(168,920)	(44,856)	(130,885)	(141,817)	(191,755)	(245,133)
(400,697)	(389,833)	(348,384)	(355,711)	(382,340)	(394,695)	(334,628)
<u>713,248</u>	<u>(1,229,105)</u>	<u>4,385,852</u>	<u>4,739,782</u>	<u>40,328,886</u>	<u>(64,165,825)</u>	<u>16,502,452</u>
<u>381,562,351</u>	<u>382,791,456</u>	<u>378,405,604</u>	<u>373,665,822</u>	<u>333,336,936</u>	<u>397,502,761</u>	<u>381,000,309</u>
<u>\$382,275,599</u>	<u>\$381,562,351</u>	<u>\$382,791,456</u>	<u>\$378,405,604</u>	<u>\$373,665,822</u>	<u>\$333,336,936</u>	<u>\$397,502,761</u>
\$ 25,754,000	\$ 23,253,426	\$ 21,155,000	\$ 21,721,000	\$ 16,073,000	\$ 15,870,941	\$ 13,956,669
1,205,930	1,317,187	1,255,232	1,284,707	1,309,697	1,487,346	1,502,605
2,581,064	3,449,416	3,733,504	5,140,250	(539,494)	2,287,916	8,363,428
(25,709,904)	(24,558,440)	(23,283,020)	(22,362,526)	(21,841,237)	(21,274,949)	(20,800,502)
(137,810)	(168,920)	(44,856)	(130,885)	(141,817)	(191,755)	(245,133)
(400,697)	(389,833)	(348,384)	(355,711)	(382,340)	(394,695)	(334,628)
<u>3,292,583</u>	<u>2,902,836</u>	<u>2,467,476</u>	<u>5,296,835</u>	<u>(5,522,191)</u>	<u>(2,215,196)</u>	<u>2,442,439</u>
<u>59,719,220</u>	<u>56,816,384</u>	<u>54,348,908</u>	<u>49,052,073</u>	<u>54,574,264</u>	<u>56,789,460</u>	<u>54,347,021</u>
<u>\$ 63,011,803</u>	<u>\$ 59,719,220</u>	<u>\$ 56,816,384</u>	<u>\$ 54,348,908</u>	<u>\$ 49,052,073</u>	<u>\$ 54,574,264</u>	<u>\$ 56,789,460</u>
<u>\$319,263,796</u>	<u>\$321,843,131</u>	<u>\$325,975,072</u>	<u>\$324,056,696</u>	<u>\$324,613,749</u>	<u>\$278,762,672</u>	<u>\$340,713,301</u>
16.48%	15.65%	14.84%	14.36%	13.13%	16.37%	14.29%
\$ 10,190,658	\$ 10,159,312	\$ 10,711,024	\$ 10,996,284	\$ 11,297,614	\$ 11,587,285	\$ 12,754,356
3,132.91%	3,167.96%	3,043.36%	2,946.97%	2,873.29%	2,405.76%	2,671.35%
6.41%	6.68%	6.66%	6.60%	6.91%	5.11%	5.39%
6.37%	6.41%	6.68%	6.66%	6.60%	6.91%	5.11%
2.45%	3.13%	3.62%	3.56%	2.85%	3.80%	4.29%
6/30/20	6/30/19	6/30/18	6/30/17	6/30/16	6/30/15	6/30/14

REQUIRED SUPPLEMENTARY INFORMATION

Notes to the Schedule of Changes in the State's Net Pension Liability and Related Ratios

Valuation Date: June 30, 2021

This Schedule is intended to show information for ten (10) years. Information prior to 2014 is not available. The additional years will be added, prospectively, as they become available.

Key Assumption Changes Related to the Schedule of Changes in the State's Net Pension Liability and Related Ratios

2021 Changes in Assumptions:

- There were no significant assumption changes.

2020 Changes in Assumptions:

- There were no significant assumption changes.

2019 Changes in Assumptions:

- The investment rate of return assumption decreased from 6.75% to 6.5%.
- The rate of inflation decreased from 2.5% to 2.25%.
- The salary increase assumption decreased from 2.75% to 2.5%.
- The mortality tables were updated to Pub-2010 Above-Median Income General Healthy Retiree and Employee Mortality Tables with adjustments for the System's credibility factors and future mortality improvements using scale MP-2018.
- The normal and early retirement rates were updated to better reflect observed experience.
- The turnover rates were updated to better reflect observed experience.

2018 Changes in Assumptions:

- The rate of inflation decreased from 2.75% to 2.50%.
- The salary increase assumption was decreased to 2.75% from 3.00%.

2017 Changes in Assumptions:

- There were no significant assumption changes.

2016 Changes in Assumptions:

- The rate of inflation decreased from 3.00% to 2.75%.
- The investment return assumption was decreased from 7.00% to 6.75%.
- The salary increase assumption was decreased from 3.5% to 3.00%.
- Turnover rates were increased for both Tier 1 and Tier 2 members. For Tier 2 members with less than five years of service, the turnover rate was increased to a flat rate of 10%.
- The overall salary increase rates were decreased to better reflect observed experience.
- The overall normal retirement rates were increased to better reflect observed experience.
- Generational mortality improvement factors were added to reflect future mortality improvements. The new mortality tables move from a single dimensional age-based table to a two dimensional table where the year of a person's birth influences their mortality rate.

2015 Changes in Assumptions:

- Future members electing to participate in the System changed from 100% to 50%.

REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF INVESTMENT RETURNS

	2021	2020	2019	2018	2017	2016	2015	2014
Annual money-weighted rate of return, net of investment expense	26.0%	4.7%	7.2%	7.5%	12.3%	0.3%	3.2%	18.1%

* **NOTE:** This Schedule is intended to show information for ten (10) years. Information prior to 2014 is not available. The additional years will be added, prospectively, as they become available.

SCHEDULE OF STATE CONTRIBUTIONS

Fiscal Year Ended June 30	Actuarially determined contribution	Contributions received	Contribution (deficiency) excess	Covered Payroll	Contributions received as a percentage of covered payroll
2012	\$ 13,365,820	\$ 10,502,000	\$ (2,863,820)	\$ 15,263,164	68.81%
2013	17,064,640	14,150,000	(2,914,640)	14,876,335	95.12%
2014	17,110,135	13,956,669	(3,153,466)	12,754,356	109.43%
2015	16,900,876	15,870,941	(1,029,935)	11,587,285	136.97%
2016	17,140,656	16,073,000	(1,067,656)	11,297,614	142.27%
2017	26,984,621	21,721,000	(5,263,621)	10,996,284	197.53%
2018	32,082,644	21,155,000	(10,927,644)	10,711,024	197.51%
2019	32,650,450	23,253,426	(9,397,024)	10,159,312	228.89%
2020	34,410,810	25,754,000	(8,656,810)	10,190,658	252.72%
2021	34,432,777	27,299,000	(7,133,777)	10,082,079	270.77%

Notes to Schedule of State Contributions:

Valuation Date: June 30, 2019

Notes Actuarially determined contribution rates are calculated as of June 30, which is 12 months prior to the beginning of the fiscal year in which the contributions will be made.

Covered payroll for fiscal years on and after June 30, 2012, were restated to comply with the requirements of GASB Statement No. 82. For fiscal years prior to June 30, 2012, covered payroll was not restated to comply with the requirements of GASB Statement No. 82 due to system limitations.

Methods and Assumptions as of the Valuation Date:

Actuarial Cost Method: Projected Unit Credit

Amortization Method: Normal cost plus a 20 year level percentage of capped payroll closed-period amortization of the unfunded accrued liability.

REQUIRED SUPPLEMENTARY INFORMATION

Remaining Amortization Period:	16 years, closed.
Asset Valuation Method:	5 year smoothed market
Inflation:	2.25%
Salary Increases:	2.5% per year (2.25% inflation and 0.25% productivity components per year).
Post Retirement Benefit:	Post-retirement benefit increases of 3.00%, compounded, for Tier 1; and 3.00% or one-half of the annual change in the Consumer Price Index, whichever is less, simple for Tier 2.
Investment Rate of Return:	6.5%
Retirement Age:	Experienced based table of rates that are specific to the type of eligibility.
Mortality:	
Post-retirement:	Pub-2010 Above-Median Income General Employee Mortality tables, sex distinct, with scaling factors of 99 percent for males and females, and the MP-2018 two-dimensional generational mortality improvement scale.
Pre-retirement:	Pub-2010 Above-Median Income General Employee Mortality tables, sex distinct, and the MP-2018 two-dimensional generational mortality improvement scale.

SUPPLEMENTARY FINANCIAL INFORMATION

SCHEDULE OF PAYMENTS TO CONSULTANTS

Year Ended June 30, 2021

Actuary	\$ 47,317
Audit fees	36,896
Legal services	-
Total	<u>\$ 84,213</u>

This page left intentionally blank

INVESTMENT SECTION

INVESTMENT REPORT

By state law, the System's investment function is managed by the Illinois State Board of Investment (ISBI). The ISBI was created in 1969 to provide a means of centralizing the investment management function for public employee pension funds and retirement systems operating in the state.

In addition to the assets of the General Assembly Retirement System, the ISBI also manages the investment function for the Judges' Retirement System, State Employees' Retirement System, and one other state agency. All ISBI investments are accounted for in a commingled fund (ISBI Fund).

Units of the ISBI Commingled Fund are issued to the participating entities on the last day of the month based on the unit net asset value calculated as of that date. Net investment income of the ISBI Commingled Fund is allocated to each of the participating entities on the last day of the month on the basis of percentage of accumulated units owned by the respective systems. Management expenses are deducted monthly from income before distribution.

As of June 30, 2021, the ISBI's total net position under management, valued at market, amounted to \$24.9 billion. Of the total market value of the net position under management, \$74.2 million or approximately 1% represented assets of the General Assembly Retirement System as of June 30, 2021.

The investment authority of the ISBI is provided in Chapter 40, Section 5/22A of the Illinois Compiled Statutes (ILCS). Such investment authority requires that all opportunities be undertaken with care, skill, prudence and diligence given prevailing circumstances that a prudent person acting in like capacity and experience would undertake.

A summary of the portfolio's largest holdings, as well as the complete listing of the ISBI portfolio, are included in the ISBI Annual Report. A schedule of fees and commissions paid by brokerage firms and a listing of transactions executed, including transaction value, are also contained in the ISBI Annual Report. A copy of the ISBI Annual Report can be obtained from the ISBI at 180 North LaSalle Street, Suite 2015, Chicago, Illinois 60601 or by visiting the ISBI's website at www.ISBI.Illinois.gov.

The following investment information and analysis has been prepared from information provided by the ISBI. Investment performance returns are prepared by Northern Trust. Investment activities are presented on a trade date basis and measurements are calculated using time weighted rates of return consistent with investment industry standards.

INVESTMENT POLICY AND ASSET ALLOCATION

The ISBI operates under a strategic investment policy. The investment objective of the total portfolio is to maximize the rate of return on investments within a prudent level of risk. To achieve this objective, the ISBI invests in different types of assets and uses multiple managers to ensure diversification.

The investment policy of the ISBI establishes asset allocation targets and ranges for each asset class, selected to achieve overall risk and return objectives. This policy is implemented by allocations to investment managers with assignments to invest in specific asset classes, with defined security selection styles and methodologies.

Changes made to the portfolio during fiscal year 2021 amounted to routine adjustments associated with the administration of an institutional portfolio – periodic rebalancing, funding of private equity and real estate commitments, selection of new limited partnerships, and continual monitoring of the portfolio.

The portfolio is regularly adjusted to manage exposures and to closely track the asset allocation policy adopted by the ISBI Board. The asset allocation policy targets and actual allocations for fiscal years 2021 are shown in the following table.

INVESTMENT SECTION

INVESTMENT ASSET ALLOCATION

	Fair Value	2021 Actual Asset Mix	Policy Target
Domestic equity	\$ 3,337,691,564	13%	
Commingled funds Domestic equity	3,387,758,018	14	
Total Domestic equity	6,725,449,582	27	23
International equity	307,054,822	1	
Commingled funds International equity	5,396,354,866	22	
Total International equity	5,703,409,688	23	21
Fixed Income ¹	955,442,520	4	
Commingled funds Fixed Income	5,767,072,433	23	
Total Fixed Income	6,722,514,953	27	29
Real estate ²	2,233,918,871	9	10
Private equity ²	1,690,845,180	7	7
Infrastructure ²	310,090,578	1	2
Opportunistic Debt ²	1,131,242,538	5	8
Hedge funds	76,923,377	-	-
Restricted cash (subscription advance)	35,000,000	-	-
Cash ³	250,743,051	1	-
Total	<u>\$ 24,880,137,818</u>	<u>100%</u>	<u>100%</u>

¹ Maturities of one year or longer, including convertible bonds.
² Interests in limited partnerships and other entities which have limited liquidity.
³ Includes money market instruments and other assets, less liabilities.

INVESTMENT PORTFOLIO SUMMARY

	June 30, 2021	
Investments, at fair value		
U.S. Govt. Agency and Municipal Obligations	\$ 521,828,660	2.10%
Domestic equities	3,337,691,564	13.43%
International equities	307,054,822	1.24%
Domestic bank loans	145,394,891	0.58%
Domestic corporate obligations	271,011,211	1.09%
International obligations	17,207,758	0.07%
Commingled funds	14,551,185,317	58.53%
Real estate funds	2,233,918,871	8.99%
Private equity funds	1,690,845,180	6.80%
Infrastructure funds	310,090,578	1.25%
Opportunistic debt funds	1,131,242,538	4.55%
Hedge funds	76,923,377	0.31%
Restricted cash (subscription advance)	35,000,000	0.14%
Measured at amortized cost:		
Money Market Instruments	\$ 250,743,051	1.01%
	<u>24,880,137,818</u>	<u>100.09%</u>
Other Assets, Less Liabilities	(19,286,609)	(0.09)%
Net Position, at Fair Value	<u>\$ 24,860,851,209</u>	<u>100.00%</u>

INVESTMENT SECTION

ADDITIONAL INVESTMENT INFORMATION

The following table shows a comparison of ISBI investment operations of the System for fiscal years 2021 and 2020:

	2021	2020	Increase/(Decrease)	
			Amount	Percentage
Balance at beginning of year, at fair value	\$ 57,128,518	\$ 54,604,431	\$ 2,524,087	4.6%
Cash transferred to (from) ISBI, net	2,300,000	-	2,300,000	100.0%
Net ISBI investment revenue:				
Net appreciation in fair value of investments	14,122,832	1,970,444	12,152,388	616.7%
Interest and dividends	758,979	629,898	129,081	20.5%
Less investment expense, other than from securities lending	(90,273)	(76,255)	(14,018)	18.4%
Net ISBI investment revenue	14,791,538	2,524,087	12,267,451	486.0%
Balance at end of year, at fair value	\$ 74,220,056	\$ 57,128,518	\$ 17,091,538	29.9%

In addition, interest on the average balance in the System's cash account in the State Treasury for FY2021 was \$17,833 compared to \$56,977 during FY2020.

MANAGEMENT EXPENSES

The ISBI's total expenses for fiscal year 2021, based on \$24.9 billion in net position, was \$31.0 million. The resulting expense ratio (expenses divided by average fair value of assets) for fiscal year 2021 was 0.12%. As a result of the ISBI's commitment to control costs, the investment management fees are typically in the bottom quartile of fees paid by the ISBI's peer group.

ANALYSIS OF INVESTMENT PERFORMANCE

In fiscal year 2021, investors enjoyed gains in international and U.S. equities as measured by the market indices. The ISBI's total fund was up 25.8% for fiscal year 2021, net of all expenses. This follows a positive return of 4.6%, 7.1%, 7.6% and 12.3% in fiscal years 2020, 2019, 2018 and 2017 respectively.

The ISBI staff, as well as its retained consultants, aggressively monitors the totality of the portfolio.

The following table reflects the investment performance over the last five years as well as the three, five, and ten year average returns for all categories in addition to their individual benchmarks.

INVESTMENT SECTION

ANALYSIS OF INVESTMENT PERFORMANCE

	2021	2020	2019	2018	2017	3 Years	5 Years	10 Years
Total Fund	25.8%	4.6%	7.1%	7.6%	12.3%	12.1%	11.2%	9.1%
Composite Benchmark*	21.9	4.9	7.0	7.4	12.0	10.8	10.3	8.4
Consumer Price Index	5.4	0.7	1.7	2.9	1.6	2.5	2.4	1.9
Domestic Equities	43.4	6.4	10.3	14.3	18.7	18.9	18.0	13.9
Russell 3000 Index	44.2	6.5	9.0	14.8	18.5	18.7	17.9	14.7
International Equities	39.2	(2.9)	1.2	7.6	22.1	11.0	12.4	7.7
MSCI-ACWI ex US Index	37.2	(4.7)	0.3	7.7	20.5	9.4	11.2	5.7
Fixed Income	5.0	7.8	7.5	0.9	0.9	6.7	4.4	3.6
Barclays Capital U.S. Universal Index	1.1	7.9	8.1	(0.3)	0.9	5.6	3.5	3.7
Real Estate	13.7	2.3	5.4	7.3	7.1	7.0	7.1	9.2
Real Estate CB	1.5	3.9	6.6	7.1	6.9	4.0	5.2	8.4
Infrastructure	11.6	8.0	13.6	13.3	13.5	11.1	12.0	11.3
Infrastructure Index	9.1	4.2	5.2	6.5	0.9	6.1	5.1	4.6
Private Equity	54.9	7.9	19.8	20.6	17.9	26.0	23.3	19.8
Private Equity CB	53.2	3.3	13.5	16.1	17.3	21.6	19.6	15.4

Note: Calculations are based on a time series of linked monthly returns (IRR), producing a time weighted effect.

Total fund return is presented net of fees. All other return information is presented gross of fees.

*** Composite Benchmark:**

Effective 07/17: 23% Russell 3000; 13% MSCI-EAFE Index; 8% MSCI Emerging Markets Index; 7% Cambridge Private Equity Index (1Q lagged); 10% Barclays Aggregate; 4% Barclays Intermediate Treasuries; 4% Barclays Long Term Treasury Index; 4% Barclays US TIPS Index; 2.5% Barclays High Yield Index; 2.5% CSFB Leveraged Loan Index; 1.0% JPM GBI EM Global Diversified (unhedged); 1.0% JPM EMBI Global Diversified (hedged); 8% S&P/LSTA US Levered Loan 100 Index; 10% NCREIF ODCE (1Q lagged) ; 2% CPI + 3.5%.

Effective 07/16: 23% Russell 3000; 13% MSCI-EAFE index; 7% MSCI Emerging Markets index; 10% Cambridge Private Equity index; 11% Barclays Aggregate; 3% Barclays Long Term Treasury index; 5% Barclays US TIPS index; 3% Barclays High Yield index; 3% CSFB Leveraged Loan index; 1.5% JPM GBI EII Global Diversified (unhedged); 1.5% JPM EMBI Global Diversified (hedged); 11% NCREIF ODCE; 5% CPI +4%; 3% HFRI Fund of Fund Composite.

Effective 06/14: 30% Russell 3000; 20% MSCI-ACWI ex US IMI Gross; 25% Barclays Capital U.S. Universal; 10% NCREIF ODCE; 5% Custom Private Equity Benchmark which is based on preliminary data subject to change; 10% HFRI Fund of Funds Index. The Custom Private Equity benchmark is based on peer universe return data compiled and published by Cambridge Associates, LLC. The custom benchmark returns are calculated as pooled internal rates of return (IRR).

Effective 01/14: 30% Russell 3000; 20% MSCI-ACWI ex US; 25% Barclays Capital U.S. Universal; 10% NCREIF ODCE; 5% Venture Economics Pooled Average Periodic IRR which is based on preliminary data subject to revision on a quarterly basis; 10% HFRI Fund of Funds Index.

Effective 07/11: 30% Russell 3000; 20% MSCI-ACWI ex US; 25% Barclays Capital U.S. Universal; 10% NCREIF ODCE; 5% Venture Economics Pooled Average Periodic IRR which is based on preliminary data subject to revision on a quarterly basis; 10% HFRX Equity Hedged Index.

This page left intentionally blank

ACTUARIAL SECTION

The schedules in this section of the report were prepared to support the actuarially determined contribution for fiscal year 2023 under the State of Illinois' funding plan. The total actuarial liability, the actuarial value of assets, and unfunded accrued actuarial liability as presented in the Actuarial section of this report using the State's funding method does not conform with GASB Statement No. 67 and therefore, the amounts presented in the Actuarial section of this report differ from the amounts presented for financial reporting purposes in the financial section of this report.

ACTUARY'S CERTIFICATION LETTER



P: 312.456.9800 | www.grsconsulting.com

October 28, 2021

Board of Trustees and Executive Secretary
General Assembly Retirement System of Illinois
P. O. Box 19255
2101 S. Veterans Parkway
Springfield, Illinois 62794-9255

Re: Actuarial Certification

At your request, we have performed the annual actuarial valuation of the assets and liabilities of the General Assembly Retirement System of Illinois ("GARS") as of June 30, 2021. This actuarial valuation has been performed to measure the funding status of the System and determine the State's statutory contribution rate for the year beginning July 1, 2022, and ending June 30, 2023. Public Act ("P.A.") 100-0023, effective July 6, 2017, modified the State's funding policy to include smoothing State contribution rate increases or decreases due to changes in actuarial assumptions, including investment return assumptions, over a five-year period in equal annual amounts beginning in fiscal year 2018. In addition, changes in actuarial or investment assumptions that increased or decreased the State contribution rate in fiscal years 2014 through 2017 are to be smoothed over a five-year period in equal annual amounts, applying only to the portion of the five-year phase-in that is applicable to fiscal years on and after 2018.

Gabriel, Roeder, Smith & Company ("GRS") has prepared this report exclusively for the Trustees of the General Assembly Retirement System of Illinois; GRS is not responsible for reliance upon this report by any other party. This report may be provided to parties other than GARS only in its entirety and only with the permission of the Trustees.

The required statutory contribution rate has been determined under the Projected Unit Credit Cost Method, providing for 90 percent funding of total actuarial liabilities by fiscal year 2045 as required by 40 ILCS Section 5/2-124(c). Contribution rates are determined according to P.A. 93-0002 and P.A. 100-0023 reflecting the infusion of the proceeds from the sale of general obligation bonds and five-year smoothing of State contribution rate increases due to changes in actuarial assumptions resulting from the 2012 and 2016 experience reviews, 2018 economic assumption review, 2019 experience review, and a future population cost analysis performed in 2015. The contribution rates also reflect the impact of P.A. 96-0889, which created a second tier for members of GARS hired after December 31, 2010.

For the actuarial valuation as of June 30, 2021, the assumed rate of return used to discount liabilities and project assets was 6.50 percent.

The required statutory contribution rates and amounts for fiscal year beginning July 1, 2022, as determined in the June 30, 2021, actuarial valuation are shown on the following page.

120 North LaSalle Street | Suite 1350 | Chicago, Illinois 60602-3495

ACTUARY'S CERTIFICATION LETTER

Board of Trustees and Executive Secretary
General Assembly Retirement System of Illinois
October 28, 2021
Page 2

	Employer's Normal Cost ^a	Amortization Payment ^b	Total
Required Rate	16.643%	262.005%	278.648%
Required Contribution	\$1,623,000	\$25,551,000	\$27,174,000

^a Includes Administrative Expenses.

^b Under the Statutory funding policy an amortization payment is not directly calculated. The amortization payment is the difference between the total statutory contribution and the employer normal cost contribution.

Based on the provisions of P.A. 97-0694, the required statutory contribution for the fiscal year beginning July 1, 2022, is submitted to the state actuary, governor, and General Assembly. Under the Act, the State actuary is required to review the assumptions and methods used to perform the actuarial valuation and develop the required statutory contributions. The final certification of the required statutory contribution is due January 15, 2022.

Pursuant to P.A. 96-0043, for purposes of determining the statutory contribution rate, an actuarial value of the System's assets was used. The actuarial value of assets is assumed to earn a rate of return equal to the System's actuarially assumed rate of return. The liabilities have been valued based on financial and employee data, which is supplied by the administrative staff of the System and verified by the System's auditor. We did not audit this data, but have reviewed the statistical support and concluded that the data is reasonable and consistent with the prior year's data.

In our opinion, the calculations also comply with the requirements of Illinois state law and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board. The System's current contribution rate determined under the statutory funding policy may not conform to the Actuarial Standards of Practice. Therefore, the Board adopted a contribution policy to be used to calculate the Actuarially Determined Contribution ("ADC") under GASB Statement Nos. 67 and 68 for financial reporting purposes. All of our work conforms with generally accepted actuarial principles and practices, and to the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Although the statutory contribution requirements were met, the statutory funding method generates a contribution requirement that is less than a reasonable actuarially determined contribution. Meeting the statutory requirement does not mean that the undersigned agree that adequate actuarial funding has been achieved. We recommend the adherence to a funding policy, such as the Board policy used to calculate the ADC under GASB Statement Nos. 67 and 68, that finances the normal cost of the plan as well as an amortization payment that seeks to pay off any unfunded accrued liability over a closed-period of 20 years, as a level percent of capped payroll.

This actuarial valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.



ACTUARY'S CERTIFICATION LETTER

Board of Trustees and Executive Secretary
General Assembly Retirement System of Illinois
October 28, 2021
Page 3

We certify that the information presented herein is accurate and fairly portrays the actuarial position of GARS as of June 30, 2021. We prepared the accompanying Summary of Actuarial Cost Method and Major Actuarial Assumptions; the GARS staff prepared the other supporting schedules in this section and the trend tables in the financial section, based on information supplied in our report.

This actuarial certification is provided to the intended user, the Board of Trustees, in conjunction with the GARS actuarial valuation report as of June 30, 2021. Additional information regarding actuarial assumptions and methods, and important additional disclosures are provided in the full actuarial valuation report as of June 30, 2021, which is available on the GARS website, and is an integral part of this certification.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the GARS as of the actuarial valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

Alex Rivera, Heidi G. Barry, and Jeffrey T. Tebeau are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,

Gabriel, Roeder, Smith & Company



Alex Rivera, FSA, EA, MAAA, FCA
Senior Consultant



Heidi G. Barry, ASA, MAAA, FCA
Senior Consultant



Jeff Tebeau, FSA, EA, MAAA
Consultant

AR/HGB/JTT:rmn



INTRODUCTION

Annually, the System's actuarial consultants perform a valuation of the liabilities and reserves of the System in order to make a determination of the amount of contributions required from the state. These results are then certified to the Board.

The Board, in turn, has the duty of certifying an employer contribution amount, required to be paid to the System by the state during the succeeding fiscal year.

The employers' contribution amount, together with participants' contributions, income from investments and any other income received by the System, shall be sufficient to meet the cost of maintaining and administering the System on a funded basis in accordance with actuarial requirements, pursuant to Chapter 40, Section 5/2-124 of the Illinois Compiled Statutes.

In August, 1994, Senate Bill 533 was signed into law as Public Act 88-0593. This funding legislation, which became effective July 1, 1995, provides that:

- For fiscal years 1996 through 2010, the contribution to the System, as a percentage of the payroll, shall be increased in equal annual increments so that by fiscal year 2010 the contribution rate is at the same level as the contribution rate for fiscal years 2011 through 2045.
- For fiscal years 2011 through 2045, the minimum contribution to the System for each fiscal year shall be an amount determined to be sufficient to bring the total assets of the System up to 90% of the total actuarial liabilities of the System by the end of fiscal year 2045. In making these determinations, the required contribution shall be calculated each year as a level percentage of payroll over the years remaining to and including fiscal year 2045 and shall be determined under the projected unit credit actuarial cost method.
- Beginning in fiscal year 2045, the minimum contribution to the System for each fiscal year shall be the amount needed to maintain the total assets of the System at 90% of the total actuarial liabilities of the System.

The funding legislation also provides for the establishment of a continuing appropriation of the required state contributions to the System. This has, in effect, removed the appropriation of these funds from the annual budgetary process.

In April, 2003, House Bill 2660 was signed into law as Public Act 93-0002. This legislation authorized the sale of \$10 billion of General Obligation bonds for the purpose of making contributions to the five state-financed retirement systems. This legislation also modified the funding plan by mandating that, beginning in fiscal year 2005, the required state contribution for each fiscal year not exceed the state contributions that would have been required had the General Obligation bond program not been in effect, reduced by the total debt service for each year for the System's portion of the General Obligation bond proceeds.

In June, 2005, Senate Bill 0027 was signed into law as Public Act 94-0004. This legislation further modified the funding plan by reducing the amount of required employer contributions for fiscal years 2006 and 2007 that would have otherwise been required under Public Act 88-0593, as modified by Public Act 93-0002. The required state contributions for fiscal years 2008 through 2010 were then to be increased incrementally as a percentage of the participant payroll so that by fiscal year 2011 the state would be contributing at the required level contribution rate to achieve the financing objective of a 90% funded status by the end of fiscal year 2045.

The total amount of statutorily required employer contributions for fiscal year 2021 was \$27,299,000. The total amount of employer contributions received from the state and other sources during fiscal year 2021 was \$27,299,000. As stated in the actuarial certification letter, although the statutory funding plan has been met, the contributions are less than the Board's policy.

The Schedule of State Contributions contained within the Required Supplementary Information (RSI) section of this report, includes a ten-year comparative history of the actuarially determined contributions and the actual contributions paid by the State.

Review by the State Actuary

Pursuant to state law, the assumptions and valuations prepared by the actuaries of each of the state-funded retirement systems are to be reviewed annually by the State Actuary, Cheiron. Within the review of the FY 2020 GARS actuarial valuation, Cheiron recognized and recommended the continued annual review of economic assumptions prior to the commencement of the valuation so that changes to the assumptions can be implemented in the valuation.

Cheiron recognized that the actual funding of the System is based on State statute and a statutory change would be required to fully implement their recommendations to change the funding methodology. Finally, they recommended a full scope actuarial audit to be done periodically by an independent actuary.

A summary of the assumption changes adopted for recent valuations can be found in this section and within the RSI of this annual financial report.

ACTUARIAL COST METHOD AND SUMMARY OF MAJOR ACTUARIAL ASSUMPTIONS

The actuarial cost method used by the System for funding purposes that is statutorily required by the State of Illinois differs from the entry age actuarial cost method mandated by GASB Statement No. 67 that is used for financial reporting purposes. The System utilizes the projected unit credit actuarial cost method. Under this method, the actuarial liability is the actuarial present value or that portion of a participant's projected benefit that is attributable to service to date on the basis of future compensation projected to retirement. The normal cost represents the actuarial present value of the participant's projected benefit that is attributable to service in the current year, again based on future compensation projected to retirement.

Certain assumptions used to determine the State's required contribution under its statutory funding plan differ from assumptions used for financial reporting purposes that are mandated by GASB Statement No. 67. GASB Statement No. 67 mandates the use of a long-term blended rate of return that utilizes the System's 6.5% expected rate of return until the projected fiduciary net position of the System is exhausted at which point a 20 year tax-exempt general obligation municipal bond rate is used 1.92% resulting in a long-term blended rate of return of 6.30% that differs from the System's expected rate of return of 6.5% used for State funding purposes. The State uses an actuarial value of assets of \$72,183,465 that recognizes gains and losses from investment returns in equal amounts over a five year period in its assumptions. GASB Statement No. 67 mandates the use of the market value of assets of \$79,808,941 in its assumptions used for financial reporting purposes.

Actuarial gains and losses are recognized in the unfunded actuarial liability of the System. However, for purposes of determining future employer contributions, the actuarial gains and losses are amortized in accordance with the funding plan as previously described.

A description of the actuarial assumptions utilized for fiscal year 2021 follows:

Dates of Adoption: The Projected Unit Credit Actuarial Cost Method was adopted June 30, 1987; all other assumptions were adopted June 30, 2019.

Asset Valuation Method: The actuarial value of assets is equal to the fair value of assets adjusted for any actuarial gains or losses from investment return incurred in the fiscal year recognized in equal amounts over the five year period following that fiscal year.

Mortality Rates: Post-Retirement Mortality Pub-2010 Above-Median Income General Healthy Retiree Mortality tables, sex distinct, with scaling factors of 99 percent for males and females, and the MP-2018 two-dimensional generational mortality improvement scale, providing a margin for future mortality improvements. Pre-Retirement Mortality, including terminated vested members prior to attaining age 50 Pub-2010 Above-Median Income General Employee Mortality tables, sex distinct, with no scaling factors, and the MP-2018 two-dimensional generational mortality improvement scale. This assumption provides a margin for future mortality improvements. Future mortality improvements are reflected by projecting the base mortality tables forward from the year 2010 using the MP-2018 projection scale.

ACTUARIAL SECTION

Salary Increase: 2.5% per year (consisting of an inflation component of 2.25% per year, a productivity component of 0.25% per year), compounded annually. In determining total covered payroll, based on recent experience, the size of the current active group is projected to decrease by approximately 50% by the year 2045 due to the assumption that 50% of future members will elect to opt out of participating in the System.

Inactive Member Pay Increase: 10.0% load on inactive vested liabilities to reflect increases in inactive members' pay due to current participation in a reciprocal system.

General Inflation: 2.25% per year, compounded annually.

Interest Rate: 6.5% per year, compounded annually, net of expenses.

Marital Status: It was assumed that 75% of active and retired participants are married.

Spouse's Age: The age of the female spouse was assumed to be 4 years younger than the age of the male spouse.

Post-Retirement Increase: Tier 1: 3.0% per year, compounded annually. Tier 2: 3.0% per year or the annual change in the Consumer Price Index, whichever is less, compounded annually.

Termination Rates: Termination rates based on the recent experience of the System were used. Rates of withdrawal are assumed to be equal to 6.0% for all ages, 20 through 65, regardless of tier.

It is assumed that terminated participants will not be rehired. The rates apply only to participants who have not fulfilled the service requirement necessary for retirement at any given age.

Disability Rates: There is no assumption for disability.

Retirement Rates: Listed below are representative sample rates of retirement that vary by age. The rates only apply to participants who have fulfilled the service requirements necessary for retirement at any given age:

Tier 1		Tier 2	
<u>Age</u>	<u>Rate of Retirement</u>	<u>Age</u>	<u>Rate of Retirement</u>
55	.050	67	.350
60	.150	70	.250
65	.200	75	1.000
70	.200		
75	1.000		

The retirement rates are equivalent to an average retirement age of approximately 60.9 for Tier 1 and 66.3 for Tier 2.

Experience Review: New assumptions were adopted as of June 30, 2019 as a result of an experience review for the three year period ending June 30, 2018. An economic assumption review was performed in 2019.

NOTE: The actuarial assumptions have been recommended by the actuary and adopted by the System's Board of Trustees, at the dates indicated previously.

There were no additional FY 2021 key assumption changes since the June 30, 2019 valuation.

ACTUARIAL SECTION

SUMMARY OF AND CHANGES TO THE PLAN PROVISIONS

Please refer to the Plan Summary and Legislative Section for a summary of the plan provisions and legislative amendments that were evaluated and considered by the actuary.

SHORT-TERM SOLVENCY TEST

A short-term solvency test is one means of checking a system's progress under its funding program. In a short-term solvency test, the plan's present assets (primarily cash and investments) are compared with: 1) active and inactive participant contributions on deposit; 2) the liabilities for future benefits to present retired lives; and 3) the liabilities for service already rendered by active and inactive participants. In a system that has been following level percent of payroll financing, the liabilities for service already rendered by active and inactive participants (liability 3) should be partially covered by the remainder of present assets. If the system continues using level cost financing, the funded portion of liability 3 will increase over time, although it is very rare for a system to have its liability 3 fully funded.

COMPUTED ACTUARIAL VALUES

Fiscal Year	Aggregate Accrued Liabilities For				Percentage of Accrued Liabilities Covered By Net Real Assets		
	(1)	(2)	(3)	Actuarial Value of Assets	(1)	(2)	(3)
	Active and Inactive Participant Contributions	Retirement and Survivor Annuities	Active and Inactive Participants (Employer Financed Portion)				
2012	\$ 17,371,734	\$ 228,860,428	\$ 57,237,101	\$ 56,090,081	100.0%	16.9%	0.0%
2013	16,059,997	250,515,633	53,885,868	51,849,558	100.0	14.3	0.0
2014	16,620,511	249,212,274	57,546,685	51,598,149	100.0	14.0	0.0
2015	16,264,544	258,544,897	53,434,265	52,564,685	100.0	14.0	0.0
2016	16,588,088	277,472,547	69,276,341	50,823,211	100.0	12.3	0.0
2017	16,349,026	284,746,890	69,662,338	55,063,012	100.0	13.6	0.0
2018	16,418,414	291,629,897	67,730,282	57,618,152	100.0	14.1	0.0
2019	13,566,521	303,756,225	57,274,513	60,057,098	100.0	15.3	0.0
2020	13,689,718	303,423,081	56,380,944	63,879,905	100.0	16.5	0.0
2021	12,947,745	310,209,467	50,567,100	72,183,465	100.0	19.1	0.0

ACTUARIAL SECTION

SCHEDULE OF RETIRANTS AND SURVIVORS' ANNUITANTS ADDED TO AND REMOVED FROM ROLLS

Fiscal Year	Annuityants				Survivors*				Total
	Beginning	Additions	Deletions	Ending	Beginning	Additions	Deletions	Ending	
2012	291	15	12	294	119	9	8	120	414
2013	294	28	12	310	120	6	7	119	429
2014	310	6	13	303	119	8	9	118	421
2015	303	16	10	309	118	8	11	115	424
2016	309	6	16	299	115	9	8	116	415
2017	299	13	12	300	116	8	3	121	421
2018	300	9	7	302	121	6	12	115	417
2019	302	29	8	323	115	5	14	106	429
2020	323	10	15	318	106	7	4	109	427
2021	318	12	14	316	109	13	8	114	430

*Includes reversionary annuities

SUMMARY OF ACCRUED AND UNFUNDED ACCRUED LIABILITIES (Analysis of Funding)

In an inflationary economy, the value of the dollar decreases. This environment results in employees' pay and retirement benefits increasing in dollar amounts resulting in unfunded accrued liabilities which increase in dollar amounts, all at a time when the actual substance of these items may be decreasing. Looking at just the dollar amounts of unfunded accrued liabilities can be misleading. The ratio of the unfunded accrued liabilities to active employee payroll provides an index which clarifies understanding. The smaller the ratio of unfunded liabilities to active participant payroll, the stronger the system. Observation of this relative index over a period of years will give an indication of whether the system is becoming financially stronger or weaker.

Fiscal Year	Total Actuarial Liability	Actuarial Value of Assets	Actuarial Value of Assets as a % of Actuarial Liability		Employee Covered Payroll	Unfunded Actuarial Liability as a % of Employee Covered Payroll
			Total Unfunded Actuarial Liability			
2012	\$ 303,469,263	\$ 56,090,081	18.5%	\$ 247,379,182	\$ 15,275,000	1,619.5%
2013	320,461,498	51,849,558	16.2%	268,611,940	14,902,000	1,802.5%
2014	323,379,470	51,598,149	16.0%	271,781,321	14,515,000	1,872.4%
2015	328,243,706	52,564,685	16.0%	275,679,021	12,940,000	2,130.4%
2016	363,336,976	50,823,211	14.0%	312,513,765	12,686,000	2,463.4%
2017	370,758,254	55,063,012	14.9%	315,695,242	11,142,000	2,833.4%
2018	375,778,593	57,618,152	15.3%	318,160,441	10,440,000	3,047.5%
2019	374,597,259	60,057,098	16.0%	314,540,161	10,200,000	3,083.7%
2020	373,493,743	63,879,905	17.1%	309,613,838	9,991,000	3,098.9%
2021	373,724,312	72,183,465	19.3%	301,540,847	9,821,000	3,070.4%

ACTUARIAL SECTION

RECONCILIATION OF UNFUNDED ACTUARIAL LIABILITY

	2021
Unfunded actuarial liability, beginning of fiscal year	\$ 309,613,838
Contributions due:	
Interest on the unfunded actuarial liability	20,124,899
Participant contributions	1,238,024
Employer normal cost	1,879,583
Interest on participant contributions and employer normal cost	99,727
Total contributions due	<u>23,342,233</u>
Contributions paid:	
Participant contributions	1,238,024
Employer contributions	27,299,000
Interest on participant contributions and State contributions	912,853
Total contributions paid	<u>29,449,877</u>
Contribution shortfall	(6,107,644)
Actuarial (gain)/loss:	
Retirements	(877,553)
In-service mortality	15,421
Retiree mortality and other	(309,602)
Salary increases	(590,897)
Terminations	881,620
Investment	(2,100,014)
New entrant liability	75,075
Data/ Method Changes	-
Other	940,603
Total actuarial (gain)/loss:	<u>(1,965,347)</u>
Assumption Changes	+
Total increase/decrease in unfunded actuarial liability	<u>= (8,072,991)</u>
Unfunded actuarial liability, end of fiscal year	<u>\$ 301,540,847</u>

ACTUARIAL SECTION

SCHEDULE OF ACTIVE MEMBER VALUATION DATA

Valuation Date	Active Members			
June 30	Number	Employee Payroll	Annual Average Pay	% Increase/(Decrease) In Average Pay
2012	176	\$ 15,275,000	\$ 86,790	2.9%
2013	160	14,902,000	93,138	7.3%
2014	158	14,515,000	91,867	(1.4)%
2015	145	12,940,000	89,241	(2.9)%
2016	141	12,686,000	89,972	0.8%
2017	135	11,142,000	82,533	(8.3)%
2018	132	10,440,000	79,091	(4.2)%
2019	126	10,200,000	80,952	2.4%
2020	124	9,991,000	80,573	(0.5)%
2021	122	9,821,000	80,500	(0.09)%

VALUATION RESULTS

Actuarial Liability:	June 30, 2021
For Active Participants:	
Pension benefits	\$ 24,094,058
Cost-of-living adjustments	8,705,637
Death benefits	486,672
Withdrawal benefits	3,474,148
Total	<u>36,760,515</u>
For Participants Receiving Benefits:	
Retirement annuities	262,515,822
Survivor annuities	47,693,645
Total	<u>310,209,467</u>
For Inactive Participants	<u>26,754,330</u>
Total Actuarial Liability	<u>373,724,312</u>
Actuarial Value of Assets	<u>72,183,465</u>
Unfunded Actuarial Liability	<u>\$ 301,540,847</u>

This page left intentionally blank

The tables in this section present historical financial information as well as certain historical demographic information pertaining to participants and benefit recipients.

STATISTICAL SECTION

Financial Schedules:

These schedules present information pertaining to assets, liabilities, reserves, and changes in fiduciary net position over a 10-year period.

Asset Balances: page 64

Liabilities & Reserve Balances: page 64

Changes in Fiduciary Net Position: page 66

Source: The System's Annual Financial Report for the relevant year.

Participant Demographic Schedules:

These schedules present certain information pertaining to active and inactive participants over a 10-year period.

Number of Participants: page 64

Number on Active Payrolls: page 65

Source: Annual report and data produced from the System's electronic files for the relevant year.

Benefit Recipient Demographic Schedules:

These schedules present certain information pertaining to benefit recipients, benefit types, average monthly benefits, ranges of monthly benefits, and location of retirees.

Number of Recurring Benefit Payments/Termination Refunds: page 65

Active Retirees by State: page 65

Retirement Annuitant Statistics and Average Monthly Benefits: page 68

Annuitants and Survivors by Monthly Benefit Range Amount: page 68

Schedule of Average Benefit Payments: page 69

Source: Annual report and data produced from the System's electronic files for the relevant year.

STATISTICAL SECTION

ASSET BALANCES

Fiscal Year Ended June 30	Cash	Receivables	Investments	Securities lending collateral with State Treasurer	Capital Assets Net of Accumulated Depreciation	Total
2012	\$ 2,481,335	\$ 1,341,463	\$ 49,025,145	\$ 1,385,000	\$ 3,610	\$ 54,236,553
2013	4,238,695	1,197,504	49,003,784	3,108,000	2,961	57,550,944
2014	4,767,584	589,878	51,549,374	2,269,000	3,187	59,179,023
2015	4,904,253	667,290	49,165,676	2,174,000	9,118	56,920,337
2016	5,542,851	993,161	42,604,441	1,359,000	15,773	50,515,226
2017	4,535,006	2,754,377	47,148,105	1,965,000	18,281	56,420,769
2018	4,718,266	684,735	51,487,943	1,949,000	22,615	58,862,559
2019	4,144,035	1,049,576	54,604,432	863,000	31,952	60,692,995
2020	5,913,822	43,853	57,128,519	1,190,000	38,435	64,314,629
2021	5,616,610	28,626	74,220,057	2,306,000	45,176	82,216,469

LIABILITIES AND RESERVE BALANCES

Fiscal Year Ended June 30	Total Liabilities	Reserve for Participant Contributions	Reserve for Future Operations	Total
2012	\$ 1,492,634	\$ 17,371,734	\$ 35,372,185	\$ 54,236,553
2013	3,203,923	16,059,997	38,287,024	57,550,944
2014	2,389,563	16,620,511	40,168,949	59,179,023
2015	2,346,073	16,264,544	38,309,720	56,920,337
2016	1,463,153	16,588,088	32,463,985	50,515,226
2017	2,071,861	16,349,026	37,999,882	56,420,769
2018	2,046,175	16,418,414	40,397,970	58,862,559
2019	973,775	13,566,521	46,152,699	60,692,995
2020	1,302,826	13,689,718	49,322,085	64,314,629
2021	2,407,528	12,947,745	66,861,196	82,216,469

NUMBER OF PARTICIPANTS

At June 30	Active			Inactive			Total
	Tier 1	Tier 2	Total	Tier 1	Tier 2	Total	
2012	147	29	176	79	-	79	255
2013	121	39	160	77	9	86	246
2014	118	40	158	69	5	74	232
2015	99	46	145	69	6	75	220
2016	94	47	141	64	7	71	212
2017	81	54	135	64	9	73	208
2018	74	58	132	61	7	68	200
2019	52	74	126	56	13	69	195
2020	46	78	124	53	12	65	189
2021	38	84	122	46	19	65	187

STATISTICAL SECTION

NUMBER OF RECURRING BENEFIT PAYMENTS / TERMINATION REFUNDS

At June 30	Retirement Annuities	Survivors' Annuities	Reversionary Annuities	Total Recurring Benefit Payments	Termination Refunds
2012	294	119	1	414	2
2013	310	118	1	429	—
2014	303	117	1	421	8
2015	309	114	1	424	3
2016	299	115	1	415	2
2017	300	121	-	421	2
2018	302	115	-	417	2
2019	323	106	-	429	1
2020	318	109	-	427	2
2021	316	114	-	430	3

NUMBER ON ACTIVE PAYROLLS

At June 30	Elected State Officers	House Members	Senate Members	Miscellaneous	Total
2012	6	118	59	1	184
2013	6	118	59	1	184
2014	6	118	59	1	184
2015	6	118	59	1	184
2016	6	118	59	1	184
2017	6	118	59	1	184
2018	6	118	59	1	184
2019	6	118	59	1	184
2020	6	118	59	1	184
2021	6	118	59	1	184

ACTIVE RETIREES BY STATE



STATISTICAL SECTION

CHANGES IN FIDUCIARY NET POSITION

Fiscal Year	2012	2013	2014	2015
Additions				
Participant contributions	\$ 1,622,742	\$ 1,451,227	\$ 1,502,605	\$ 1,487,346
Employer Contributions:				
State of Illinois	10,502,000	14,150,000	13,856,000	15,809,000
Other sources	-	-	100,669	61,941
Total employer contributions	10,502,000	14,150,000	13,956,669	15,870,941
Net investment income/(loss)	(81,448)	6,492,598	8,363,428	2,287,916
Miscellaneous	-	-	-	-
Total additions to /(deduction from) fiduciary net position	12,043,294	22,093,825	23,822,702	19,646,203
Deductions				
Benefit Payments:				
Retirement annuities	15,903,041	16,602,650	17,218,504	17,663,009
Survivors' annuities	3,343,844	3,507,469	3,581,998	3,611,940
Total benefit payments	19,246,885	20,110,119	20,800,502	21,274,949
Refunds:				
Termination	31,604	-	147,059	117,986
Other	117,690	41,110	98,074	73,769
Total refunds	149,294	41,110	245,133	191,755
Administrative expenses	298,104	339,494	334,628	394,695
Total deductions from fiduciary net position	19,694,283	20,490,723	21,380,263	21,861,399
Change in fiduciary net position	\$ (7,650,989)	\$ 1,603,102	\$ 2,442,439	\$ (2,215,196)

STATISTICAL SECTION

2016	2017	2018	2019	2020	2021
<u>\$ 1,309,697</u>	<u>\$ 1,284,707</u>	<u>\$ 1,255,232</u>	<u>\$ 1,317,187</u>	<u>\$ 1,205,930</u>	<u>\$ 1,238,024</u>
16,073,000	21,721,000	21,155,000	23,221,000	25,754,000	27,299,000
-	-	-	32,426	-	-
<u>16,073,000</u>	<u>21,721,000</u>	<u>21,155,000</u>	<u>23,253,426</u>	<u>25,754,000</u>	<u>27,299,000</u>
<u>(539,494)</u>	<u>5,140,250</u>	<u>3,733,504</u>	<u>3,449,416</u>	<u>2,581,064</u>	<u>14,809,371</u>
-	-	-	-	-	-
<u>16,843,203</u>	<u>28,145,957</u>	<u>26,143,736</u>	<u>28,020,029</u>	<u>29,540,994</u>	<u>43,346,395</u>
18,104,674	18,354,695	19,188,301	20,590,350	21,641,643	21,403,506
3,736,563	4,007,831	4,094,719	3,968,090	4,068,261	4,660,823
<u>21,841,237</u>	<u>22,362,526</u>	<u>23,283,020</u>	<u>24,558,440</u>	<u>25,709,904</u>	<u>26,064,329</u>
54,527	70,336	43,556	58,585	98,591	70,721
87,290	60,549	1,300	110,335	39,219	83,591
<u>141,817</u>	<u>130,885</u>	<u>44,856</u>	<u>168,920</u>	<u>137,810</u>	<u>154,312</u>
<u>382,340</u>	<u>355,711</u>	<u>348,384</u>	<u>389,833</u>	<u>400,697</u>	<u>330,616</u>
<u>22,365,394</u>	<u>22,849,122</u>	<u>23,676,260</u>	<u>25,117,193</u>	<u>26,248,411</u>	<u>26,549,257</u>
<u><u>\$ (5,522,191)</u></u>	<u><u>\$ 5,296,835</u></u>	<u><u>\$ 2,467,476</u></u>	<u><u>\$ 2,902,836</u></u>	<u><u>\$ 3,292,583</u></u>	<u><u>\$ 16,797,138</u></u>

STATISTICAL SECTION

RETIREMENT ANNUITANTS STATISTICS AND AVERAGE MONTHLY BENEFITS

At Retirement				
Fiscal Year Ended June 30	Average Age	Average Length of Service *	Average Current Age	Average Current Monthly Benefit
2012	59.9	13.7	72.3	\$ 4,486
2013	60.0	13.4	72.0	4,544
2014	60.2	13.4	72.5	4,710
2015	60.3	13.4	72.8	4,887
2016	60.4	13.5	72.9	5,009
2017	60.4	13.4	72.9	5,151
2018	60.3	13.5	73.2	5,336
2019	60.5	13.7	72.9	5,480
2020	60.5	14.0	73.1	5,512
2021	60.5	14.4	73.2	5,644
* in years				

Annuitants by Benefit Range (Monthly) on June 30, 2021					Survivors* by Benefit Range (Monthly) on June 30, 2021				
Benefit Range	Total	Cumulative Total	% of Total	Cumulative % of Total	Benefit Range	Total	Cumulative Total	% of Total	Cumulative % of Total
\$ 1-2,000	52	52	16.5%	16.5%	\$ 1-2,000	39	39	34.2%	34.2%
2,001-4,000	69	121	21.8	38.3	2,001-4,000	37	76	32.5	66.7
4,001-6,000	52	173	16.5	54.8	4,001-6,000	23	99	20.2	86.9
6,001-8,000	71	244	22.5	77.3	6,001-8,000	6	105	5.3	92.2
8,001-10,000	32	276	10.1	87.4	8,001-10,000	8	113	7.0	99.2
10,001-15,000	36	312	11.4	98.8	10,001-15,000	1	114	0.8	100.0
15,001-22,000	4	316	1.2	100.0					
					* includes reversionary annuities				

STATISTICAL SECTION

Average Benefit Payments Fiscal Years 2012 through 2021

Retirement Effective Dates	Years Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/11 to 6/30/12							
Average monthly benefit	\$ 235	\$ 810	\$ 3,388	\$ 4,553	\$ —	\$ 6,085	\$ 10,255
Final average salary	\$ 3,131	\$ 2,972	\$ 6,919	\$ 6,448	\$ —	\$ 7,159	\$ 12,519
Number of retired members*	2	1	4	4	—	1	1
Period 7/1/12 to 6/30/13							
Average monthly benefit	\$ 1,200	\$ 2,430	\$ 2,949	\$ 5,109	\$ 5,674	\$ —	\$ —
Final average salary	\$ 3,920	\$ 5,370	\$ 6,600	\$ 6,944	\$ 6,675	\$ —	\$ —
Number of retired members*	1	5	10	7	4	—	—
Period 7/1/13 to 6/30/14							
Average monthly benefit	\$ 1,050	\$ 1,389	\$ 3,290	\$ —	\$ 5,537	\$ —	\$ —
Final average salary	\$ 3,208	\$ 6,098	\$ 6,385	\$ —	\$ 6,514	\$ —	\$ —
Number of retired members*	1	2	2	—	1	—	—
Period 7/1/14 to 6/30/15							
Average monthly benefit	\$ 667	\$ 1,954	\$ 4,033	\$ 8,186	\$ 7,224	\$ —	\$ —
Final average salary	\$ 6,724	\$ 6,514	\$ 6,772	\$ 10,971	\$ 8,499	\$ —	\$ —
Number of retired members*	3	1	5	2	4	—	—
Period 7/1/15 to 6/30/16							
Average monthly benefit	\$ 693	\$ 610	\$ 2,393	\$ —	\$ 5,988	\$ —	\$ —
Final average salary	\$ 6,493	\$ 3,208	\$ 6,648	\$ —	\$ 7,045	\$ —	\$ —
Number of retired members*	2	1	1	—	2	—	—
Period 7/1/16 to 6/30/17							
Average monthly benefit	\$ —	\$ 1,759	\$ 3,230	\$ 4,813	\$ 5,872	\$ —	\$ —
Final average salary	\$ —	\$ 6,514	\$ 6,552	\$ 6,514	\$ 6,908	\$ —	\$ —
Number of retired members*	—	1	7	2	2	—	—
Period 7/1/17 to 6/30/18							
Average monthly benefit	\$ —	\$ 5,679	\$ 3,610	\$ 4,653	\$ 3,553	\$ —	\$ —
Final average salary	\$ —	\$ 14,167	\$ 6,514	\$ 7,159	\$ 4,214	\$ —	\$ —
Number of retired members*	—	1	1	1	4	—	—
Period 7/1/18 to 6/30/19							
Average monthly benefit	\$ —	\$ 1,859	\$ 3,406	\$ 4,608	\$ 6,197	\$ 6,085	\$ 6,329
Final average salary	\$ —	\$ 4,796	\$ 6,890	\$ 6,643	\$ 7,290	\$ 7,159	\$ 7,446
Number of retired members*	—	4	8	5	6	1	2
Period 7/1/19 to 6/30/20							
Average monthly benefit	\$ —	\$ 825	\$ 3,937	\$ 3,734	\$ 3,212	\$ —	\$ 6,930
Final average salary	\$ —	\$ 4,058	\$ 7,159	\$ 6,904	\$ 6,406	\$ —	\$ 13,616
Number of retired members*	—	1	1	2	2	—	2
Period 7/1/20 to 6/30/21							
Average monthly benefit	\$ 188	\$ 1,713	\$ 3,328	\$ 5,424	\$ 6,546	\$ 7,093	\$ 7,093
Final average salary	\$ 5,789	\$ 6,066	\$ 6,512	\$ 7,525	\$ 7,701	\$ 8,344	\$ 8,344
Number of retired members*	1	3	4	2	1	1	1

* The number of retired members excludes new retirements with retroactive benefit start dates prior to the beginning of the period as well as resumptions of retirement benefits with original benefit start dates prior to the beginning of the period.

This page left intentionally blank

PLAN SUMMARY AND LEGISLATIVE SECTION

PLAN SUMMARY

SUMMARY OF RETIREMENT SYSTEM PLAN

(As of June 30, 2021)

1. Purpose

The purpose of the System is to provide retirement annuities, survivors' annuities and other benefits for members of the General Assembly, certain elected officials, and their beneficiaries.

The single employer defined benefit plan is comprised of two tiers of contribution requirements and benefit levels. Tier 1 pertains to participants who first became a participant of the System prior to January 1, 2011.

Tier 2 pertains to participants who first became a participant of the System on or after January 1, 2011.

The provisions below apply to both Tier 1 and Tier 2 participants except where noted.

2. Administration

Responsibility for the operation of the System and the direction of its policies is vested in a Board of Trustees consisting of seven members. The administration of the detailed affairs of the System is the responsibility of the Executive Secretary who is appointed by the Board of Trustees.

Administrative policies and procedures are designed to ensure an accurate accounting of funds of the System and prompt payment of claims for benefits within the applicable statute.

3. Employee Membership

All members of the Illinois General Assembly and any person elected to the office of Governor, Lieutenant Governor, Secretary of State, Treasurer, Comptroller or Attorney General become participants of the System unless they file an election not to participate within 24 months of taking office.

Any person who has served 10 or more years as Clerk or Assistant Clerk of the House of Representatives, Secretary or Assistant Secretary of the Senate or any combination thereof, may elect to become a participant.

4. Participant Contributions

Participants are required to contribute a percentage of salary as their share of meeting the various benefits at the following rates:

Retirement Annuity	8.5%
Automatic Annual Increase	1.0%
Survivors' Annuity	2.0%
Total	11.5%

Tier 1 participants contribute based on total annual compensation. Tier 2 participants contribute based on a statutorily capped compensation amount which is increased each year by 3% or the annual percentage increase in the Consumer Price Index, whichever is less.

A participant who has no eligible survivors' annuity beneficiary may elect to not participate in the survivors' annuity provisions in which case the total participant contribution rate is 9.5% of salary.

5. Retirement Annuity

A. Qualification of Participant

Tier 1: Upon termination of service, a participant is eligible for a retirement annuity at age 55 with at least eight years of credit, or at age 62 with at least four years of credit.

Tier 2: Upon termination of service, a participant is eligible for an unreduced retirement annuity at age 67 with at least 8 years of credit.

The retirement annuity of a participant who retires between the ages of 62 and 67 with at least 8 years of credit shall be reduced $\frac{1}{2}$ of 1% for each month the participant's age is under 67.

PLAN SUMMARY

B. Amount of Annuity

Tier 1: The retirement annuity is determined according to the following formula based upon the applicable salary:

3.0% for each of the first 4 years of credit;
3.5% for each of the next 2 years of credit;
4.0% for each of the next 2 years of credit;
4.5% for each of the next 4 years of credit;
5.0% for each year of service over 12 years.

The maximum annuity is 85% of the applicable final average salary.

For participants who first become a participant before August 10, 2009 and, are either a member of the General Assembly or hold the office of Governor, Lieutenant Governor, Secretary of State, Treasurer, Comptroller, or Attorney General on their last day of service, final average salary is the highest salary prescribed by law on the participant's last day of service.

For participants who first become a participant before August 10, 2009 and, hold the office of Clerk or Assistant Clerk of the House of Representatives or Secretary or Assistant Secretary of the Senate on their last day of service, final average salary is the salary received for service in that capacity but not to exceed the highest salary that is prescribed by law for the highest paid officer of the General Assembly.

For participants who first become a participant on or after August 10, 2009 and before January 1, 2011, final average salary is the average monthly salary during the 48 consecutive months of service within the last 120 months of service in which the total salary was the highest.

Tier 2: The retirement annuity is determined according to the following formula based upon the applicable final average salary:

- 3.0% for each year of credit

The maximum annuity is 60% of the applicable final average salary.

The applicable final average salary is the average monthly salary during the 96 consecutive months of service within the last 120 months of service in which the total salary was the highest. The salary for any calendar year is capped in accordance with the statute governing the System. The cap is increased each year by 3% or the annual percentage increase in the Consumer Price Index, whichever is less.

C. Optional Forms of Payment

Reversionary Annuity: A participant may elect to receive a reduced annuity during his or her lifetime in order to provide a spouse, parent, child, brother or sister with a lifetime income. Such payment to a spouse would be in addition to the survivors' annuity benefit. The election should be filed with the System at least 2 years prior to retirement.

D. Annual Increases in Retirement Annuity

Tier 1: Post-retirement increases of 3% of the current amount of annuity are granted to participants effective in January or July of the year following the first anniversary of retirement and in January or July of each year thereafter. However, if the participant has not attained age 60 at that date, the payment of such annual increase shall be deferred until the first of the month following their 60th birthday.

For participants who first became members of the System on or before August 8, 2003 and remain in service after attaining 20 years of creditable service, the 3% annual increases shall begin to accrue on the January 1 following the date when the participant (1) attains age 55, or (2) attains 20 years of creditable service, whichever occurs later. In addition, the annual increases shall continue to accrue while the participant remains in service; however, such increases shall not become payable until (1) the January 1 or the July 1 next following the first anniversary of retirement, or (2) the first of the month following attainment of age 60, whichever occurs later.

PLAN SUMMARY

Tier 2: Post-retirement increases to the current amount of annuity in an amount equal to the lesser of 3% or the annual percentage increase in the Consumer Price Index for all Urban Consumers are granted to participants effective in January of the year next following the first anniversary of retirement and in January of each year thereafter, but in no event prior to age 67.

E. Suspension of Retirement Annuity

Tier 1: An annuitant who reenters service becomes a participant and resumes contributions to the System as of the date of reentry and retirement annuity payments cease.

If the provisions of the Retirement Systems' Reciprocal Act are elected at retirement, any employment which would result in the suspension of benefits under any of the retirement systems being considered would also cause the annuity payable by the General Assembly Retirement System to be suspended.

Tier 2: The retirement annuity being paid is suspended when an annuitant is employed on a full-time basis and becomes a member or participant of the General Assembly Retirement System Article or any other reciprocal system of the Illinois Pension Code, other than the Judges' Retirement System or the State Universities' Retirement System.

6. Survivors' Annuity

A. Qualification of Survivor

If death occurs while in service, the participant must have established at least two years of credit. If death occurs after termination of service and prior to receipt of a retirement annuity, the participant must have established at least 4 years of credit.

To be eligible for the survivors' annuity, the spouse and participant or annuitant must have been married for at least 1 year immediately preceding the date of death.

An eligible spouse qualifies at age 50 or at any age if there is in the care of the spouse unmarried children who are (1) under age 18 or (2) over age 18 if mentally or physically disabled or (3) under age 22 and a full-time student. Eligible surviving children would be entitled to benefits if no spouse survives.

B. Amount of Payment

If the participant's death occurs while in service, the surviving spouse without eligible children would be eligible to 66-2/3% of earned retirement annuity, subject to a minimum of 10% of salary. A surviving spouse with eligible children would receive the greater of 66-2/3% of the earned retirement annuity or 30% of salary increased by 10% of salary for each minor child, subject to a maximum of 50% of salary to a family, unless survived by a dependent disabled child in which case the annuity to a surviving spouse would not be less than 100% of the earned retirement annuity.

If the participant's death occurs after termination of service or retirement, the surviving spouse without eligible children would be eligible to 66-2/3% of earned retirement annuity. The maximum a surviving spouse with eligible children would receive is 75% of the earned retirement annuity unless survived by a dependent disabled child in which case the annuity to a surviving spouse would not be less than 100% of the earned retirement annuity.

The minimum survivors' annuity for any qualified survivor shall be \$300 per month.

C. Duration of Payment

When all children, except for disabled children, are ineligible because of death, marriage or attainment of age 18 or age 22 in the case of a full-time student, the spouse's benefit is suspended if the spouse is under age 50 until attainment of such age.

D. Annual Increases in Survivors' Annuity

Tier 1: Increases of 3% of the current amount of annuity are granted to survivors in each January occurring on or after the commencement of the annuity if the deceased participant died while receiving a retirement annuity.

PLAN SUMMARY

In the event of an active participant's death, increases of 3% of the current amount of annuity are granted to survivors effective in January of the year next following the first anniversary of the commencement of the annuity and in January of each year thereafter.

Tier 2: Increases to the current amount of annuity in an amount equal to the lesser of 3% or the annual percentage increase in the Consumer Price Index for All Urban Consumers are granted to survivors. Such increases are payable on each January 1 occurring on or after the commencement of the annuity if the deceased participant died while receiving a retirement annuity or, in other cases, on each January 1 occurring on or after the first anniversary of the commencement of the annuity, but in no event prior to age 67.

7. Death Benefits

The following lump sum death benefits are payable to the named beneficiaries or estate of the participant only if there are no eligible survivors' annuity beneficiaries surviving the deceased participant.

A. Before Retirement

If the participant's death occurs while in service, a refund of total contributions to the System, without interest, in the participant's account.

B. After Retirement

If the participant's death occurs after retirement, a refund of the excess of contributions to the System over annuity payments, if any.

The following lump sum death benefit is payable to the named beneficiaries or estate of the survivor.

A. Death of Survivor Annuitant

Upon death of the survivor annuitant with no further survivors' annuity payable, a refund of excess contributions to the System over total retirement and survivors' annuity payments, if any.

8. Disability Benefit

A Tier 1 participant with at least 8 years of service who becomes permanently disabled while in service as a contributing participant is eligible for a retirement annuity regardless of age. If disability is service-connected, the annuity is subject to reduction by amounts received by a participant under the Workers' Compensation Act and the Workers' Occupational Diseases Act.

9. Refund of Contributions

Upon termination of service, a participant is entitled to a refund of total contributions to the System without interest. By accepting a refund, a participant forfeits all accrued rights and benefits in the System for his or herself and beneficiaries.

A participant who has no eligible survivors is entitled to a full refund of contributions for the survivors' annuity benefit. The refund may be repaid, with required interest, to qualify a spouse for survivors' annuity benefits if the participant marries or remarries after retirement.

LEGISLATIVE SECTION

LEGISLATIVE AMENDMENTS

Legislative amendments with an effective date during fiscal year 2021 having an impact on the System:

There were no legislative changes that became effective during fiscal year 2021 that had an impact on the System.

NEW LEGISLATION

Legislative amendments with an effective date after June 30, 2021, having an impact on the System:

Senate Bill 1056 (Public Act 102-0210; effective July 30, 2021)

Provides updated language so that the System can maintain the required minimum distribution consistent with Internal Revenue Code.

House Bill 3004 (Public Act 102-0603; effective August 27, 2021)

Prohibits an individual who is a board member of a pension fund, investment fund, or retirement system from being employed by a pension fund, investment board, or retirement system under Illinois Pension Code while serving as a board member or for a period of twelve months after he or she ceases to be a board member.

The Act does permit a board member to fill a vacancy of a senior administrative staff position during the process to permanently fill the vacancy provided that:

- The majority of the board votes to designate a board member to serve in that position,
- The board member does not receive any salary or benefits while serving in that position,
- The board member serves in the position for not more than six months, and
- The board member vacates their position on the board while serving in that role.